



SDGs @ CUI Wah Campus



Volume 4 January - June 2024

Newsletter

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COMSATS University Islamabad, Wah Campus is committed to fostering self-sufficiency and sustainability among students, faculty, staff, and community members through a series of training sessions, workshops, and capacity-building programs. We showcase senior year designs during Open House and Job Fairs, incubating indigenous real-world solutions for local industries. Our goal is to empower individuals and create sustainable impacts in their professional lives. Through these concentrated efforts, the campus aims to catalyze positive transformations and ensure sustainable impacts in the lives of our future innovators and leaders.

Our academic programs encompass a wide range of disciplines including sustainability practices, poverty alleviation strategies, social entrepreneurship, and inclusive development. We are pleased to announce the launch of new graduate-level academic programs: MS in Cyber Security, MS in Artificial Intelligence and MS in English Linguistics starting from the Fall - 2024 semester. This initiative underscores our campus's commitment to academic advancement and its agenda.

The campus is currently upgrading its infrastructure to enhance teaching, learning, and research experiences, with a focus on high-speed internet, WiFi, smart classrooms, and digitization. Additionally, the campus is integrating green energy solutions by installing a 400 KW PV Solar Power System to minimize carbon footprint and reduce power consumption, contributing to sustainable development. These initiatives aim to cultivate a campus environment that promotes stewardship and adopts sustainable practices, ensuring a healthier and more eco-friendly environment for all.



1



End Poverty in all its forms Everywhere

Advocating Equality in Education for Poverty Alleviation

CUI Wah Campus is dedicated to promoting sustainable practices aimed at alleviating poverty and reducing inequality by enhancing living standards through higher education. Scholarships are offered and coordinated for talented yet financially disadvantaged students in collaboration with government and non-government organizations to transform their lives. Last year, approximately Rs. 95.34 million was disbursed to students through various scholarship programs. CUI Wah Campus contributed Rs. 22 million from its own resources, with an additional Rs. 73.34 million in support from government and non-government organizations.



In the Spring - 2024 academic semester, 10% of newly admitted students applied for scholarships through the Student Financial Aid Office (SFAO).

The Scholarship Distribution Award Ceremony for the Punjab Educational Endowment Fund (PEEF) Master's level scholarships was held on February 27, 2024, covering various disciplines. Prof. Dr. Muhammad Abid, T.I., Director Campus, addressed attendees, delivering words of encouragement, wisdom, and emphasizing the importance of education, the value of scholarship opportunities, and the responsibilities of scholarship recipients. Certificates were distributed to the awardees by the Director Campus.

Empower the Youth in Obtaining Dignified Work

CUI Wah Campus tackles the challenges posed by poverty and societal issues by empowering youth. Our focus is on providing technical training that prepares individuals for professional careers, securing fair and dignified job opportunities, and equipping them to navigate life's challenges. The campus offers on-the-job technical internships to help youth gain practical work experience and achieve self-sufficiency in overcoming poverty.

Upon successful completion of these internships, participants acquire practical experience as Computer Operators, Office Assistants, and General Electricians. This hands-on experience not only helps them build a professional network and excel in their roles but also enhances their resume credentials, enabling them to contribute effectively within their communities.



Impact comes by giving Opportunities

CUI Wah Campus has partnered with the RELO-English Access Micro-Scholarship Program and the Public Affairs Section of the US Embassy to empower economically disadvantaged youth by enhancing their academic skills and fostering professional careers. This initiative aims to support them in developing their linguistic abilities through the Regional English Language Office (RELO). The English Access Micro-Scholarship Program is offered free of cost to enhance their professional and educational skills, as well as to develop proficiency in the English language.

This version clarifies the collaboration's purpose and the benefits provided to the economically disadvantaged youth.



REGIONAL
ENGLISH
LANGUAGE
OFFICE

Access

3



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

Teaching and Recreational Volunteer Activities at Orphanage House

The faculty members and students from the Community Services Committee from the Department of Civil Engineering visited the Al Ummat Welfare Foundation, Wah Cantt on April 4, 2024.

The initiative aimed to bring happiness, spread kindness, and create lasting memories for orphaned children living at the orphanage.

The volunteer activity included educational and recreational programs, as well as the distribution of gifts and clothing. This effort fostered a sense of unity and support within the community, particularly during the religious festival of Eid ul-Fitr.



Extends Helping Hands to Needy

On May 21, 2024, CUI Wah Campus demonstrated a strong commitment to serving humanity on a voluntary basis by organizing a high-quality Blood Donation Camp in collaboration with the Pakistan Red Crescent Society (PRCS).

Over 50 units of blood from various blood groups were collected during the event. The collective goal of both student donors and employees was to support individuals battling severe illnesses and to safeguard valuable lives.



Fostering Creative Thinking

The Student Start-up Business Society (SSBS) and Career Development Center (CDC) jointly organized a seminar titled "Role of Islamic Values in Entrepreneurship" on February 27, 2024. Raja Zia-Ul Haq, CEO of Youth Club, served as the guest speaker. The event was graced by the presence of Prof. Dr. Muhammad Abid, T.I., Director Campus, who welcomed the guest and underscored the importance of integrating Islamic teachings into various aspects of life. During his address, the guest speaker emphasized the significance of fostering creative thinking and an entrepreneurial mindset among students. He also highlighted the belief that Allah Almighty has endowed each individual with unique attributes, emphasizing the Islamic value of relying on Allah, who assumes responsibility for providing sustenance to all creatures.

The seminar concluded with the presentation of a campus souvenir to the guest speaker, followed by a vote of thanks delivered by Dr. Mushtaq Ahmad Bhatti, Incharge CDC.



Mental Growth with Extracurricular Activities

The Student Week for the Spring 2024 semester took place at COMSATS University Islamabad (CUI) Wah Campus from May 8 - 11, 2024. The event kicked off with an energetic opening ceremony on May 8, 2024, sparking students' enthusiasm with vibrant performances. This marked the beginning of a week-long celebration filled with a variety of activities.



Students enthusiastically organized and participated in a diverse range of sports and extracurricular activities. The campus was filled with energy as thrilling matches of cricket, football, badminton, table tennis, basketball, and e-gaming unfolded, showcasing participants' dedication and sportsmanship.

In addition to sports, the event featured literary and cultural activities such as Mushaira, Naat, and Qirat competitions, providing a platform for students to showcase their literary and artistic talents.

The week also boasted a variety of food stalls, adding to the festive atmosphere with culinary delights. Students and organizers worked tirelessly to ensure the event's success, which was marked by remarkable displays of talent and teamwork.

Development of Character and Conduct

The Department of Electrical and Computer Engineering, in collaboration with the Seerat Society, organized a seminar on the Finality of Prophethood on March 20, 2024. The thought-provoking lecture was delivered by Muhammad Usman Arif, Executive Director of the Shubban Educational Forum. The event successfully fostered an environment of intellectual exchange and mutual learning. Prof. Dr. Wasif Nisar, In-charge of the IT Center, presented a campus souvenir to the guest speaker along with a vote of thanks.



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Ensure Inclusive and Equitable Quality Education And Promote Lifelong Learning Opportunities for All



COMSATS University Islamabad (CUI) has garnered global and national recognition across 16 fields in the QS World University Rankings framework, which assesses universities' performance in addressing environmental, social and governance challenges.

COMSATS University Islamabad (CUI) has achieved recognition both globally and nationally in mentioned 16 fields. As per the QS World University Rankings by Subject - 2024 the Electrical & Electronic Engineering, Mathematics is ranked between 201 - 250, Computer Science & Information Systems, Chemistry, Economics and Physics is ranked between 251 - 300. Accounting and Finance, Chemical Engineering and Agriculture and Forestry is ranked between 301 - 350, and Business & Management Studies, Biological Sciences is achieved a ranking between 401 - 450.

Nationally in Pakistan, CUI has been ranked First by subjects in Mathematics and Chemistry and rest disciplines are on 2nd, 3rd and 4th places respectively.

Academic Advancements

CUI Wah Campus is actively enhancing its academic profile by introducing new academic programs and upgrading its infrastructure to better develop students' professional capabilities.

The main focus of the campus is to provide knowledge-based education essential for building successful careers. The faculty consists of over 85 PhD holders, including 13 Professors, 36 Associate Professors, and 36 Assistant Professors, showcasing the campus's dedication in achieving academic excellence.

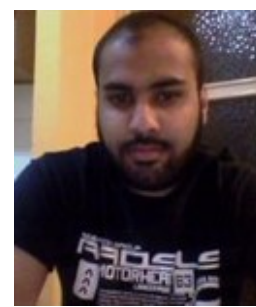


The ongoing construction of Academic Block-I represents a significant milestone in the campus's growth. It symbolizes the campus's unwavering dedication to academic excellence and its commitment to contributing to the betterment of society.

Acknowledgement to be a Proud

Congratulations to Prof. Dr. Muhammad Sharif, Associate Professor Dr. Mussarat Yasmin in the Department of Computer Science and Associate Professor Dr. Muhammad Awais from the Department of Electrical and Computer Engineering for being recognized as **CUI BEST SCHOLARS**. Their research contributions have significantly contributed to CUI Wah Campus's recognition as one of the Best Universities in Pakistan for 2023. Their efforts have elevated the university to a global ranking of No. 922 and No. 2 nationally among 31 Pakistani Universities by Research.com.

We extend our heartfelt congratulations on their success from the entire CUI Wah Campus community.



Honor in Scholastic Achievement

The Academic Excellence Merit Certificates distribution ceremony was held on March 28, 2024, to congratulate and honor undergraduate students for their outstanding academic achievements during the Fall semester of 2023. A total of 124 students from various academic programs including BS(CS), BS(SE), BS(EI), BS(BBA), BS(AF), BS (CVE), and BS(ME) were awarded for their excellence.

The ceremony was graced by the presence of Prof. Dr. Muhammad Abid, T.I., Director Campus, who attended as the chief guest. In his remarks, he extended congratulations to all the students for their exceptional performance and dedication to academic excellence.



The Director Campus commended the students, particularly the females who achieved a winning ratio of 43%, highlighting their contribution to empowerment and gender equality alongside the 57% of male students. He encouraged all students to maintain their high aspirations for achieving academic excellence in the future with unwavering determination. The Heads of Departments also motivated the awardees to aim high, work diligently, and have confidence in their abilities to attain further academic success throughout their degree programs.

Stepping-Stone of Achieving Goals

The team Ascenders from the Department of Mechanical Engineering **secured 1st position** in the Fly Your Own Plane (FYOP) contest at the TAAKRA 2024 competition. The team comprising of

- Usama Javed Janjua
- Muhammad Wasay Khalid
- Muhammad Ahmad

The other teams from CUI Wah Campus namely Arrowheads, Raven, and Aviator Ayslum also performed well in the event and demonstrated remarkable skills and innovation throughout the competition. The design and flight of their aircraft showcased a profound understanding of aerodynamics. The teams from CUI Wah Campus successfully completed all assigned tasks, receiving acclaim from both judges and the audience. All the teams were supervised by Dr. Shoaib Naseem, Assistant Professor from the Department of Mechanical Engineering.

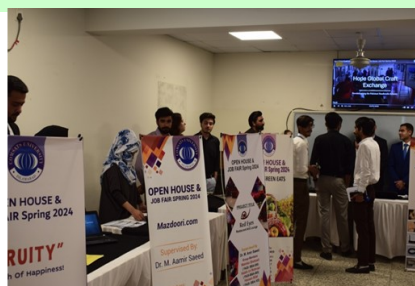


Evaluate Learning to Explore Potential Career Opportunities

COMSATS University Islamabad (CUI), Wah Campus organized an Open House and Job Fair on May 16, 2024, exclusively for graduating students of the Spring Semester 2024. Judges from both industry and academia evaluated approximately 204 projects, providing valuable feedback to students. Representatives from various industries and academia, along with faculty and students, visited and reviewed the flagship projects from six disciplines: Electrical & Computer Engineering, Civil Engineering, Mechanical Engineering, Computer Science, Software Engineering, and Management Sciences.

Over 136 companies participated, shortlisted candidates, conducted interviews, and offered job opportunities to graduating students. During the opening ceremony, Dr. Mushtaq Ahmad Bhatti, In-Charge of the Career Development Center (CDC) at CUI Wah Campus, outlined CDC activities and welcomed participants. Prof. Dr. Muhammad Abid, T.I., Director Campus, highlighted the mutually beneficial relationship between industry and academia.

Mr. Imran Latif, AVP Systems Ltd., served as the Chief Guest of the opening session, emphasizing the importance of the industry-academia partnership in fostering a research-oriented environment in the country. Alumni including Engineer Haziq Zhaeer from the Department of Civil Engineering, Mr. Ahmad Badar from the Department of Computer Science, and Anum Zahoor from Management Sciences at CUI Wah Campus shared their insights and practical experiences. In the closing ceremony, Dr. Syed Adnan Qasim, Registrar of the National University of Technology (NUTECH), a seasoned academician, was the Chief Guest. He shared his professional growth experiences and congratulated the winners and runner-up teams of the Final Year Projects (FYPs), distributing certificates to the achievers.



Knowledge and Skills to Foster Learning



The Department of Electrical and Computer Engineering organized a seminar titled “Semiconductor, RISC-V Opportunities, and SoC/IP Design” on May 22, 2024. Mr. Jaffar Safdar, CEO of AQL Tech Solutions (Pvt) Ltd, Islamabad, Pakistan, led the session.

The seminar delved into semiconductor technology and RISC-V-based IC design, with Mr. Safdar highlighting the industry's promising trajectory amidst emerging technologies such as quantum computing, 5G, autonomous vehicles, and advanced robotics. He underscored the critical role of open standards like RISC-V and advancements in System-on-Chip (SoC) and Intellectual Property (IP) design in shaping future technological landscapes.

Adding a practical dimension to the seminar, Mr. Abdullah Rizwan, an esteemed alumnus of ECE from CUI Wah Campus and currently a SoC RTL design engineer at AQL Tech Solutions, shared invaluable industry experiences.

Continuing Professional Development Activity to Enhance Abilities

The Department of Civil Engineering at CUI Wah Campus organized a (CPD) seminar on “Non-Destructive Test Methods for Concrete Bridges” on May 30, 2024. Dr. Tahir Mahmood, Head of the Department of Civil Engineering, welcomed the guest speaker, Engr. Dr. Sardar Kashif ur Rehman, Head of Civil



Engineering at CUI Abbottabad Campus, Dr. Rehman holds a PhD in Structural Engineering from Malaysia with more than 10 years of Teaching & Research experience at National and International Universities.

During the seminar, Dr. Rehman emphasized the application of non-destructive testing (NDT) methods for enhancing the safety, resilience, affordability, and environmental sustainability of concrete bridges. The event was attended by participants from academia, industry, and students alike. At the conclusion of the seminar, a CUI Wah Campus souvenir was presented to Dr. Rehman, accompanied by a vote of thanks.

Mathematics Seminar Series 2024

Prof. Dr. Azad Akhter Siddiqui, a distinguished mathematician and cosmologist renowned for his expertise in Mathematical Physics and Computational Mathematics, and former Dean of the Faculty of Natural Sciences at NUST, served as the guest speaker. He shared his insights on “Generating Approximate Closed-Form Solutions of Partial Differential



Equations” and engaged participants in interactive learning sessions. Through examples and analysis, he demonstrated the derivation and prediction of closed-form solutions of PDEs using mathematical model symmetries and numerical computation techniques. Dr. Muhammad Rafiq, Head of the Mathematics Department, highlighted the significance of closed-form solutions of PDEs in his concluding remarks.

Process to Meet the Standards of Quality Education

A team from the Pakistan Engineering Council (PEC), consisting of Prof. Dr. Muhammad Tufail, Pro-Vice Chancellor of NED University of Engineering and Technology, Karachi; Prof. Dr. Shahid Imran from University of Engineering and Technology (UET), Lahore; Dr. Aamir Mubashar from School of Mechanical & Manufacturing Engineering, NUST Islamabad; and Engr. Samar Naseem, PEC Representative, visited CUI Wah Campus on May 2-3, 2024 for the re-accreditation of the BS (ME) program from the Fall 2020-2023 intake.

In the initial meeting, the Director Campus presented a comprehensive report highlighting the campus's strengths, achievements, successes, infrastructure, future development plans, and the ongoing construction of the New Academic Block.

The Chairman/HoD of Mechanical Engineering provided an overview of the department's academic achievements, events, and future strategic benchmarks. During their visit, the PEC team inspected facilities, held meetings with section heads, industry partners, alumni, faculty members, and students to assess educational standards.



PhD Dissertation



PhD scholar **Mr. Safdar Khan** has successfully defended his PhD Thesis titled “**Suspicious Human Activity Recognition Using Machine Vision**”, supervised by Tenured Associate Professor, Dr. Jamal Hussain Shah and Co-supervised by Professor, Dr. Muhammad Sharif.



PhD scholar **Ms. Sara Khalid** has successfully defended her PhD Thesis titled “**Traffic Sign Detection and Recognition (TSDR) in Uncontrolled Environment**”, supervised by Tenured Associate Professor, Dr. Jamal Hussain Shah and Co-supervised by Professor, Dr. Muhammad Sharif.

Prof. Dr. Sarfraz Ahmad, Chairperson of the Mathematics Department, visited CUI Wah Campus on May 7, 2024. He was welcomed with a note presented by Dr. Muhammad Rafiq, Head of the Mathematics Department. The meeting aimed to celebrate the commendable achievement of the Mathematics Department, securing the top national position and ranking 201-250 internationally in the QS World Rankings.

During an informal meeting with faculty members, the Chairperson emphasized the importance of adhering to rigorous quality measures to uphold academic excellence at CUI



Wah Campus. He got engaged in collaborative exchange with faculty members, actively addressing their queries and presenting potential remedies to enhance educational efficacy. Furthermore, he highlighted the pivotal role of practical, real-world applications in mathematical courses, particularly for students pursuing studies in the discipline of Business Administration, Engineering, and Computer Science.

5



Achieve gender equality and empower all women and girls

13th International Conference of Business and Economic Development, New York, USA

Dr. Tahira Nazir, Assistant Professor in the Department of Management Sciences, attended the 13th International Conference on Business and Economic Development (ICBED) with the support of an HEC travel grant.

At the conference, held from April 15 - 16, 2024, in New York, USA, Dr. Nazir presented her research paper titled "Servant Leadership and Employee Innovative Behaviour: Unpacking the Role of Support for Innovative and Creative Self-Efficacy in Knowledge-Intensive Service Contexts."

Her participation provided a valuable opportunity to share research findings, engage in scholarly dialogue, and promote cross-cultural understanding.



Congratulations to Engr. Summera Fahmi Khan

The International Centre for Integrated Mountain Development (ICIMOD) is including Engr. Summera Fahmi Khan from the Department of Civil Engineering and Member UNESCO Chair on Knowledge Systems on Integrated Water Resources Management in the ICIMOD's international women day feature.

<https://www.icimod.org/international-women-day-2024/>



Winning a Project from Regional English Language Office (RELO)



Dr. Ambreen Shahnaz, as Project Director, successfully secured a grant of \$105,144 USD for the English Access Scholarship Program (2024-2025) from the Regional English Language Office (RELO) at the public diplomacy section of the US Embassy in Islamabad. The primary goal of this funding is to improve the English language proficiency and career readiness skills of students from underprivileged communities over an 18-month period. This initiative aims to empower these students with essential skills that will enhance their future prospects and opportunities.

6



Ensure Availability and Sustainable Management of Water and Sanitation for All

Elevating Visibility through Invited Talk and Seminar to promote Sustainable Agriculture and Addressing Climate Change Impacts



The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) at CUI Wah Campus organized an event on May 23, 2024, focusing on food security and its environmental impact. The event highlighted the use of the AquaCrop Model to enhance crop production and manage water resources efficiently amidst climate change challenges. It also emphasized the role of solar-powered drip irrigation systems in promoting sustainable agriculture in the region.

Dr. Mukhtar Ahmed, Assistant Professor from the Department of Agronomy at PMAS-Arid Agriculture University, delivered an insightful talk titled "AquaCrop Model for Climate-Smart Agriculture." He discussed how the AquaCrop Model improves irrigation practices and addresses food security by optimizing crop water requirements.

In the second session, Engr. Sarmad Manzoor, a UNESCO Chair member and Lecturer in the Department of Civil Engineering, presented on "Design and Management of Solar-Powered Drip Irrigation Systems". He addressed the operational challenges posed by climate change and underscored the critical role of solar-powered drip irrigation systems in various regions of Pakistan.

National Water Conference on Water, People and Equity, Building a better Future for All

Prof. Dr. Muhammad Abid, Director of the Campus and UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), along with a team comprising Engr. Summera Fehmi, Engr. Sarmad Manzoor, and three students from the Department of Civil Engineering, attended the National Water Conference on January 15, 2024. The conference, organized by the Indus Consortium dedicated to humanitarian, environmental, and developmental issues, aimed to promote 'A Better Future for All.' It focused on fostering inclusive water management practices to benefit all segments of society.



Celebrations of World Water Day - 2024

World Water Day (WWD) is an annual United Nations Observance Day celebrated at CUI Wah Campus under the auspices of the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) on March 14, 2024. The objective of WWD was to raise awareness at global, regional, and local levels about Pakistan's water challenges, prevention, effects on communities, and building resilience to shared challenges, with a focus on achieving Sustainable Development Goal (SDG) 6: Water and Sanitation for all. The World Water Day revolves around this year's theme, "Water for Peace".



The event featured two distinguished speakers who enriched the audience with their expertise on crucial water-related topics. Mr. M. Dilshad Arshad, Director of Hydrology at PCRWR, provided a comprehensive talk on Zero Liquid Discharge (ZLD). His presentation underscored the significance of implementing ZLD strategies to minimize wastewater, which not only supports sustainable livelihoods but also enhances community resilience.

Following Engr. Waleed Tariq, a Lecturer and Member of UNESCO Chair, shared insights from a survey titled 'Exploring Perspectives on Water for Peace.' This survey aimed to gauge public awareness, attitudes, and behaviors concerning the intersection of water conservation and peace-building. Engr. Tariq emphasized the survey's findings, highlighting its contributions to the ongoing discourse on fostering peace through water management and conservation efforts.

Group Discussion on "Water Conservation and Peace"



The group discussion was arranged on "Water Conservation and Peace" on March 14, 2024, were presented by undergraduate group leaders from the University of Wah, Wah Medical College, and CUI Wah Campus from the Civil Engineering, Mechanical Engineering, Computer Science, and Management Sciences Departments. All the groups discussed water scarcity, usage, and availability for the future, and presented topics to spread awareness on strategic matters of wastewater management systems and conflicts to achieve peace in water distribution.

The discussion highlight various aspects of freshwater and the challenges related to water management, providing opportunities to raise awareness, promote action, and encourage national and regional-level community-based cooperation to boost awareness of water management.

Meesum Abbas and Abdullah Zafar from the Mechanical Engineering Department got first position for presentation on innovative water technologies whereas the second position was grabbed by Junaid Malik and Emaan Irfan from the Computer Science Department for gender perspectives on water management.

8th International Water Conference (8IWC)

The Director Campus / UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) Prof. Dr. Muhammad Abid.T.I., attended the inaugural session of 8th International Water Conference (8IWC) on “Valuing Water for Sustainability” as Guest of Honor on March 6, 2024. The conference was jointly organized by Pakistan Council of Research in Water Resources (PCRWR), Riphah International University, Islamabad and United Nations Children's Fund (UNICEF) Pakistan at PCRWR Headquarter Islamabad.

The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Wah Campus stressed on the importance of integrated approaches for collection of climate change data to measure adverse impact of climate change.

The Director Campus / UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) Prof. Dr. Muhammad Abid.T.I., attended the inaugural session of 8th International Water Conference (8IWC) on “Valuing Water for Sustainability” as Guest of Honor on March 6, 2024. The conference was jointly organized by Pakistan Council of Research in Water Resources (PCRWR), Riphah International University, Islamabad and United Nations Children's Fund (UNICEF) Pakistan at PCRWR Headquarter Islamabad.



Attended Dialogue on “SDPI’s Response to COP28: From Consensus to Realization”

The Director Campus/UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) on January 10, 2024 attended an online dialogue organized by the Sustainable Development Policy Institute (SDPI), Islamabad. The dialogue covered the scientific aspects of resource consumption and climate change. Discussion held on the recent scientific findings, the projections highlighted in the Global Emissions Gap Report, the Global Resource Outlook and the first report of the Global Stock Take (GST) of the Paris Agreement. Dr. Abid Q. Suleri, Executive Director SDPI, Ambassador Shafqat Kakakhel



Deputy Executive Director, Resilience Development Program & Policy Outreach, Shafqat Munir Ahmed, Syed Qasim Ali Shah, Deputy Executive Director (Ops), Azerbaijan Ambassador to Pakistan Khazar Farhadov and other were participated as panelists in the dialogue.

On April 30, 2024, the Director Campus/UNESCO Chair on Knowledge Systems for IWRM, along with a team consisting of Dr. Summera Fahmi Khan and Engr. Waleed Tariq from the Department of Civil Engineering, held a meeting with Prof. Dr. Hamza Farooq Gabriel from the Department of Water Resources Engineering & Management (WRE&M) at NUST Institute of Civil Engineering (NICE), Islamabad. The meeting focused on exploring potential research collaboration opportunities in sustainable solutions, specifically within the framework of implementing management strategies to address climate variability. This collaborative effort is fruitful in advancing knowledge and implementing effective strategies that benefit communities and the environment alike.



8



Promote Sustained, Inclusive and Sustainable Economic Growth, Full and Productive Employment and Decent Work for All

Optimization of Industry-Academia Cooperation Strategies

A delegation led by Mr. Muhammad Kashif, Director of Development at Glaxit SMC Pvt. Ltd., along with Mr. Usman, Sales Executive, and Ms. Haleeema, HR Manager, visited CUI Wah Campus on June 28, 2024. The main agenda of their meeting was to strategize a recruitment drive that aligns with their shared vision of empowering the future generation.

Present at the meeting from CUI Wah Campus were Prof. Dr. Muhammad Abid, Director Campus, T.I.; In-charge ITC, Prof. Dr. Muhammad Wasif Nisar; Associate Professors Dr. Jamal Hussain and Dr. Saeed ur Rehman. Director Campus highlighted the significance of Industry-Academia partnerships.

Mr. Kashif commended the capacity-building initiatives at COMSATS University Islamabad (Wah Campus) and expressed a strong interest in fostering collaboration. He proposed a joint initiative to educate students on cutting-edge trends in the software industry.

Both parties agreed to closely collaborate on organizing workshops and Continuing Professional Development (CPD) programs aimed at enhancing students' skills to align with the latest trends in the software industry. Dr. Mushtaq suggested that Glaxit SMC Pvt. Ltd. become a regular participant in CUI Wah Campus' bi-annual open house drives for permanent hiring needs. Additionally, Mr. Kashif coordinated a campus recruitment drive, liaising with the CS department and CDC to facilitate internships in response to Glaxit's urgent hiring requirements. The meeting concluded with a vote of thanks.



Exploration of Collaborative Opportunities

The Director Campus had a meeting on May 3, 2024 with the Managing Director of New-Tech Industries, Mr. Asim bin Kazim, aiming to enhance and strengthen the relationship between Industry and University. The NewTech as partner industry is facilitating final year students of CUI Wah Campus in developing FYPs. The Dean Faculty of Engineering and Chairman Mechanical Engineering are also present on the occasion.



The Director Campus, Prof. Dr. Muhammad Abid, T.I., visited Siemens Pakistan Engineering Co Ltd, Lahore office on January 29, 2024 and had meeting with Mr Ashfaq Ahmed, Head Building products and corporate business development, SIEMENS Engineering Limited.

Deliberations held on the joint collaborative possibilities for adaptive smart technology use, awareness and tailored training sessions to enhance industrial competitiveness, safety management, construction and other solutions.



Enhancement of Campus Environment and Bolster of Student's Community

COMSATS University Islamabad (CUI), Wah Campus organized an Alumni Meetup 2k24 event on February 23, 2024. Alumni since inception of the Campus from the Department of Electrical & Computer Engineering, Computer Science, Management Sciences, Civil Engineering, Mechanical Engineering and Mathematics were invited to join the event. More than 500 Alumni, faculty/staff participated in the event. Founding Rector, Prof. Dr. S.M. Junaid Zaidi, H.I, S.I. grace the occasion as the Chief Guest of the event. The Rector CUI, Prof. Dr. Sajid Qamar along with



The Campus Director, Prof. Dr. Muhammad Abid, T.I., emphasized the significance of this day for Alumni, providing them with the opportunity to reconnect with their former teachers, staff members and witness the progress of their Alma Mater.

Rector CUI Wah, Prof. Dr. Sajid Qamar stressed on the need of having these events frequently in the Campus. He added that such events will help to develop strong bond with our Alumni and the institution. CUI have more than 100,000 alumni and a big milestones can be achieved by the University with their cooperation.

Founding Rector, Dr. S.M. Junaid Zaidi, H.I, S.I. enchanted audience in his peculiar style and he invited pioneer graduates at the stage and admired their commitment with the institution. In order to encourage, pioneer employees were also invited at the podium and admired their efforts and contribution rendered for the success of the institution.



Alumni from various departments were given opportunity to share their success stories and rekindle memories with CUI Wah Campus. Ms. Faiza Usman Alumnus of Computer Science (CS) Department highlighted her success stories and reminded her colleagues, teaching styles of CS teachers especially, Prof Dr. Muhammad Sharif and Prof Dr Ehsan Ullah Munir. Similarly, Qambar Zaidi from Software Engineering, Muhammad Yasir Khan from Management Sciences, Mr. Inshal Yaqoob from Mechanical Engineering, Qamar Abbas from Civil Engineering and Yusra Taj from Mathematics Department highlighted their success and sweet memories of their Alma Mater.



Catering latest Industry Demand in the field of Computer Science

The Department of Computer Science, ACM Student Chapter CUI-Wah organized a seminar on “Career Opportunities in IT Industry in Computer Science” on Thursday, May 2, 2024. The event was a resounding success, with a packed house and an enthusiastic response from Computer Science students. More than 150 students participated in the seminar. Speakers, Mr. Mian Muhammad Talha and Ms. Maha Rasheed, Lecturer Computer Science Department shared their industry experiences and presented exciting opportunities for students of all backgrounds. The event concluded with a stimulating discussion session and a Q&A, enriching the attendees’ knowledge even further.



Career Growth through Project Based Learning

The Director Campus, Prof. Dr. Muhammad Abid, T.I., participated in the panel discussion of International Workshop on “Curriculum Development through Outcome Based Education and CDIO” was organized by Faculty of Engineering and Technology of International Islamic University Islamabad conducted under PAK-UK Education Gateway Mobility Partnership program by the Higher Education Commission and British Council Pakistan on January 09, 2024.

The panelists discussed the importance in shaping the future of education in the field of engineering by focusing on curriculum development through project based learning and CDIO. They stress engineering fundamentals set in the context of conceiving, designing, implementing and operating real-world systems and products.



At the end the honorable Rector, Prof. Dr. Fazal Ahmad Khalid of the Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) and the Dean Faculty of Engineering and Technology, Dr. Nadeem Ahmed Sheikh from IIUI presented the souvenir to Dr. Abid with vote of thanks.

CUI Wah Campus has Won Second Prize at PEC Capstone Expo 2024



The Pakistan Engineering Council (PEC) Capstone Expo was held in Islamabad on January 23, 2024, showcasing innovative projects from BS Engineering students representing universities nationwide.

One of the highlighted projects, titled "Subsonic Speed Analysis of Blended Wing Body," achieved second place in the Mechanical Engineering category. This project was supervised by Assistant Professor Dr. Muhammad Shoaib Naseem and involved collaborative efforts from students Alishba Javed, Usama Javed, Ayesha Idrees, Muhammad Ahmed, and Muhammad Wasy Khalid.



9



Build Resilient Infrastructure, Promote Inclusive and Sustainable Industrialization and Foster Innovation

Newly Constructed Transport Office Building and Allied Facilities



2nd International Conference on Modern Technologies in Mechanical and Material Engineering (MTME-2024)

The 2nd International Conference on Modern Technologies in Mechanical and Material Engineering (MTME-2024) was concluded on **April 20, 2024**, at GIK Institute, Topi, Pakistan. The objective of MTME-2024 is to bring innovative academics and industrial experts together in the field of Mechanical and Material Engineering to a common forum.

The Director Campus, Prof. Dr. Muhammad Abid, T.I., as panelist participated in the exciting panel discussion on the critical topic of “Industry-Academia Linkages: Challenges & Opportunities” along with the panelist from the GIKI, NUST, PU, Pak-Austria Fachhochschule, and IIUI. The panelists exchanged ideas on improving the industry-academia relationship to improve indigenous product development as well as skill-set enhancement of the university graduates, with the leading industry of the country.



In his closing remarks, the Chief Guest, Prof. Dr. Sajid Qamar, Rector of COMSATS University, emphasized the need for research collaboration with industry to address societal issues effectively. He underscored the pivotal role of the Office of Research, Innovation, and Commercialization (ORIC) established across all higher education institutes in the country.

Prof. Dr. Fazal Ahmad Khalid, SI, Rector of GIK Institute and patron-in-chief of the conference, along with the Program Chairs, commended the efforts of the Program Committee for organizing the conference on such a critical topic.

Industrial Exposure

Industrial Visit of BS(ME) Students to Central Diesel Locomotive (CDL) Workshop Rawalpindi

The Department of Mechanical Engineering has organized an industrial visit to Pakistan Railway's Central Diesel Locomotive (CDL) workshop, Rawalpindi on April 30, 2024 under the supervision of Lecturer, Usama Tahir. The visit coordinator, Mr. Farooq explained to the students about the activities performed in CDL workshop. The students observed the meticulous processes involved in maintaining and repairing train locomotives. Students participated in an interactive sessions led by experienced railway technicians, asking questions and gaining deeper insights into locomotive maintenance and engineering principles. Beyond technical knowledge, students



established invaluable networking by interacting with industry professionals, allowed students to forge connections, gain insights into career pathways, and explore potential internship opportunities within the railway sector.

An Industrial Visit - BS(ME) Students to Heavy Industries Taxila (HIT)

The industrial visit to Heavy Industries Taxila (HIT) was arranged by the Department of Mechanical Engineering, CUI Wah Campus on May 7, 2024. The visit was offered to undergraduate students under the guidance of Lecturer, Arsalan Hussain. The visit commenced with an informative session held at the well-equipped auditorium of Margalla Training Institute, where Colonel (Retired) Aqeel Ahmed, Principal of Margalla Training Institute, delivered a comprehensive presentation on the structure, workings, organizational setup, and capabilities of HIT across its various departments.

During visit students got a tour of the DESCOM department, where they witnessed various machining operations from modernized CNC machines to traditional lathes and milling machines, students gained practical exposure to a wide range of manufacturing technologies. Mr. Afzal (ATO), Mr. Waqar Ahmad, and Mr. Abdullah Shafiq guided students through different operations and machines, enhancing their understanding of machining processes.



The tour concluded with a visit to the TMF department, where students observed assembly operations for various HIT products. AWM Shouqat, AWM Mashroof, and AWM Haider provided students with insights into assembly techniques and quality control measures employed by HIT.

Educational Field Visit

The Department of Civil Engineering Department arranged an educational field visit for the students of BS Civil Engineering 3rd Semester as part of their study of the subject 'Highway Engineering' to the Tunnelling Institute of Pakistan (TIP) Islamabad on May 22, 2024. The purpose of the visit was to gain practical knowledge and advances in the field of tunnelling.

The expert from TIP shared the importance of tunnels in the modern era, the construction of various types of tunnels, key tunnelling techniques, and challenges faced during tunnelling projects. The students witness practical experience from this field visit.



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Take Urgent Action to Combat Climate Change and Its Impacts

TechXchange International Conference

The Director Campus, Prof Dr. Muhammad Abid, T.I., chaired the technical session and delivered the keynote on **“An Overview of Research Progress for Bolted Flange Joint Design and Pressure Vessels – Pakistani Perspective”** in the “TechXchange International Conference” on January 25- 26, 2024 organized by the Department of Mechanical Engineering, Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah, Sindh, Pakistan. Technology entrepreneurs, researchers and experts from industry and academia from Pakistan and International organizations participated in the conference to share their valuables on digital transformation, energy and power policies of Pakistan and waste management latest solutions with Net-Zero Emissions.



In his speech Dr. Abid shared his research on the importance and increased use of pressure vessels and flanges in the petrochemical industry, power, energy and oil and gas sector based on CPEC activities at present and in future. He shed light for proper design and analysis for reliable operations at different operating temperatures and pressures.

Energy Efficiency and Conservation in Buildings

The Department of Civil Engineering, CUI Wah Campus in collaboration with the National Energy Efficiency and Conservation Authority (NEECA), the Ministry of Energy (Power Division) arranged a one-day consultative session on Energy efficiency and conservation in Buildings in compliance with energy conservation building code 2023 on March 07, 2024. The theme of the event was to foster an interest in energy efficiency.

Chief Guest of the event Engr Zeeshan Ullah, Director Buildings of NEECA was welcomed by the Director Campus, Prof. Dr. Muhammad Abid, T.I., HoD Civil Engineering, Dr. Tahir Mehmood, and Engr Sarmad Manzoor ICE Wah Chapter faculty advisor. The session explains the aims and objectives of the Energy Conservation Building Code of 2023 by introducing the ECBC 2023. The problems faced and became the need for Energy Efficiency and Conservation in Buildings 2023, solutions for the construction sector, and star rating of the electric appliance were discussed in detail.



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Conserve and Sustainably use the Ocean, Sea and Marine Resources for Sustainable Development

IEEE/OES China Ocean Acoustics Conference (COA 2024)

Prof. Dr. Muhammad Abid, Director Campus and UNESCO Chair on Knowledge Systems for Integrated Water Resource Management (IWRM) at CUI Wah Campus, visited Harbin Engineering University, Harbin, China from May 28 to June 2, 2024, as the invited keynote speaker at the third IEEE/OES China Ocean Acoustics Conference (COA 2024), held from May 29 to 31, 2024.

Prof. Abid delivered a keynote address titled "A Framework Approach to Strengthen Higher Education in the Field of Marine Information and Engineering." As an academician, he emphasized the growth prospects, needs, and development of the Marine Information and Engineering field in Pakistan, considering its geographical position, ocean resources, blue economy, and implications for trade and defense. He actively participated in discussions and highlighted collaborative efforts between CUI and HEU.



The conference brought together distinguished experts in marine acoustics research to present their latest findings in marine and underwater acoustics. Through the exchange of knowledge via invited talks and research papers, researchers and scholars from around the world discussed cutting-edge topics, enriching their understanding and paving the way for new opportunities in marine and underwater acoustics advancements.

Additionally, a technology exhibition during the conference showcased advanced marine and underwater acoustic instruments, equipment, and systems from Chinese and international manufacturers.



China-Pakistan Marine Information (CPMI) Workshop and Training Course from May 29 – June 13, 2024 was conducted at Harbin Engineering University (HEU), Heilongjiang, China.



The Training/Workshop was jointly organized by the International Cooperation Department of the Ministry of Science and Technology in collaboration with Harbin Engineering University, China, the training course aligns with China's Belt and Road Initiative.

Professor LIU Songzuo chaired the opening session, and Professor QIAO Gang, Dean of the College of Underwater Acoustics (UWA) at HEU, China, highlighted the history of academic exchanges with Pakistan and activities at the School of Underwater Acoustics Engineering.

Dr. Niaz Ahmad and Prof Dr Muhammad Abid being involved from the start of CPMI highlighted brief history and progress of CPMI activities each year. In addition emphasize on the diverse backgrounds of the participants and their eagerness to seize this valuable learning opportunity, highlighting its potential to strengthen enduring friendships between China and Pakistan.

Thirty-two Pakistani researchers from various sectors both industrial and academic actively participated and benefited from the program. The course covered topics ranging from foundational principles to cutting-edge advancements in underwater acoustic equipment design, measurement, and detection methods. It incorporated the latest theories and practical applications, enabling attendees to engage with state-of-the-art research and advanced technologies in China.



Meeting with Professor of National Taiwan University for future Collaborations in Educational and Research Activities

The meeting was held between Prof. Dr. Muhammad Abid, Director Campus/UNESCO Chair on Knowledge Systems for IWRM, and Professor Prof. Hongzhi Wang National Taiwan University at Harbin to explore possibilities of partnerships through faculty and student exchange and joint research initiatives. Common interests included application of under water acoustic sensors to study whales and aquatic culture and related areas in deep and shallow waters.



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

Strengthening Academic Collaboration and Partnership

To enhance academic collaboration, the Vice Chancellor, Prof. Dr. Rasool Bux Mahar of Benazir Bhutto Shaheed University of Technology & Skills Development, Khairpur MIRS, visited CUI Wah Campus on January 15, 2024. The Director of the Campus, Prof. Dr. Muhammad Abid, T.I., warmly welcomed him.

During the welcome discussion, the Director presented a comprehensive report on the campus's strengths, achievements, facilities, and the ongoing construction of New Academic Block -1 at CUI Wah Campus.

The Chairman of Computer Science, Prof. Dr. Ehsan Ullah Munir, and all Heads of Departments (HoDs) were also in attendance. Discussions focused on collaborative research, organizing hands-on training and workshops, as well as facilitating student and faculty exchanges under the previously signed MoU between the two universities.



The guest visited the Departments and Laboratories, Library and other facilities.



Addressing Real World Problems

During the visit to HEU Harbin China, a meeting was held between Prof. Dr. Muhammad Abid, T.I., Director CUI Wah and Prof. Xu He Department of Electrical and Mechanical Engineering, HEU on June 1, 2024. Dr Song, Dr Chen and Fazle Haseeb and their graduate students attended the meeting. Prof. Xu presented brief of ongoing projects at HEU followed by a tour of Intelligent Robots and Advanced Fluid System Laboratory. It was agreed to have mutual cooperation in intelligent robots, advanced fluid systems, artificial intelligence, augmented reality, digital twins, and CFD experimental and simulation work to address and solve real world challenging problems for the socio-economic benefit of both the countries.



Focusing on Educational Sustainable Development

A meeting was held between Prof. Muhammad Abid, T.I., Director CUI Wah Campus and Prof Liu Zhilin, Dean College of Intelligent Systems and Engineering, HEU on June 1, 2024. The various avenues of collaboration focusing on education and research specifically with focus on Artificial Intelligence in cutting-edge technological innovations, Automation and Control, Intelligent Systems, Augmented Virtual Reality, Digital Twins and Industry 4.0 were discussed. Prof Abid also visited different labs related to above topics and showed keen interests for joint working.



Sustainable Cooperation for Faculty and Students Exchange



Prof. Dr. Muhammad Abid, T.I. Director Campus /UNESCO Chair for Knowledge systems for IWRM had a meeting with the Prof. Wang, Head Massive Data Computing Research Center, Harbin Institute of Technology (HIT) China during his visit to China from May 28 – June 2, 2024. Both introduced their institutions and in specific to the research they are involved in. After detailed deliberation based on common interests in big data, high performance computing, applications of machine learning and artificial intelligence for big/massive data analysis to solve real world challenging problems, it was agreed to fostering cooperation through faculty and student exchanges, as well as knowledge sharing.

Active Researchers to engage with UK Higher Education Leaders

Distinguished delegation of UK Higher Education Leaders, led by Professor Sir Steve Smit, the esteemed UK Government's International Education champion, this delegation comprises 24 notable members visited CUI on April 23, 2024. The Team from CUI Wah Campus comprising Prof. Dr. Nadia Nawaz, Tenured Associate Professor Dr. Shabieh Farwa, Tenured Associate Professor Dr. Muhammad Yar Khan, Assistant Professor Dr. Barkat Ullah, Lecturer Mr. Taimur Sajjad attended the session for enriching discourse, networking and collaborative opportunities with esteemed guests from the UK higher education.



Potential of Working together in the Field of Transportation and Health

A delegation from Hungarian Embassy comprising of Dr. Istvan Grafjodi (Dr. Grafi), Commercial Counselor from Ambassador's Office and from COMSATS University Islamabad (CUI), Prof. Dr. Muhammad Abid, T.I., Director, CUI Wah Campus, Dr. Hammad Omer, T.I., Head (International Office), Dr. Danish Farooq, Assistant Professor, Department of Civil Engineering, CUI Wah Campus having PhD from Hungary, Mr. Arif Awan, Senior Program Officer (IO).

Dr. Grafi appreciated the opportunities and showed the interest of work to collaborate in future with all stakeholders. He emphasized channelizing the desired potential strategies to work together. He suggested the areas transport, healthcare

and IT to move further. Prof. Abid briefed the CUI Wah Campus research potential and introduced Dr. Farooq as one alumnus who had graduated from Hungary and his field of research was transport systems.



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- Computer Engineering
- Civil Engineering
- Mechanical Engineering

Computer Science - (NCEAC - Approved)

- Computer Science
- Software Engineering
- Artificial Intelligence

Management Sciences - (NBEAC - Approved)

- Business Administration
- Accounting & Finance

GRADUATE PROGRAMS

MS - (HEC - Approved)

- Civil Engineering (Structural Engineering & Construction Engineering and Management)
- Mechanical Engineering (Design and Manufacture, Thermal Fluid Sciences, Automation and Control & Modeling and Simulation)
- Electrical Engineering
- Computer Science
- Cyber Security
- Artificial Intelligence
- Management Sciences
- Project Management
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