

SDG's Report 2023

SUSTAINABLE DEVELOPMENT GOALS



COMSATS University Islamabad



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SDG-1 NO POVERTY



The Sustainable Development Goals (SDGs) represent a comprehensive framework aimed at addressing global challenges by 2030. No Poverty: End poverty in all its forms everywhere.

The Sustainable Development Goals are interconnected and designed to tackle the root causes of poverty and inequality while promoting sustainability and resilience across all sectors. Achieving them requires collaborative efforts from governments, businesses, civil society, and individuals.

COMSATS University Islamabad (CUI) plays a pivotal role in advancing the Sustainable Development Goals (SDGs) through various initiatives and programs aimed at fostering sustainable practices and community engagement. Therefore, COMSATS University has indeed made significant contributions toward achieving the targets of Sustainable Development Goal 1 (SDG 1), which aims to end poverty in all its forms everywhere.

The CUI Students Financial Aid Office (SFAO) plays a pivotal role in uplifting children from low-income families, helping them achieve educational sustainability and economic independence. The office provides comprehensive guidance for deserving students in securing various need-based scholarships, merit-based fellowships, educational loans, and teaching assistantships, effectively fighting against poverty. Comsats University Islamabad plays a vital role in reducing poverty by providing various scholarships to deserving students. Detail of some scholarships are mentioned below:

- **Abdullah Foundation Scholarships**
- **Alpha Chemicals Scholarships**
- **Quaid-e-Azam Scholarship**
- **HEC Ehsaas/BENAZIR UNDERGRADUATE SCHOLARSHIP PROJECT (BUSP)**
- **Punjab Educational Endowment Fund Scholarships**
- **Higher Education Opportunities for the students of Balochistan & FATA**
- **HEC PAK USAID-Funded Merit And Needs-Based Scholarship Program**
- **Frontier Educational Foundation Scholarships (FEF-KPK)**

- **Balochistan Educational Endowment Fund Scholarships (BEEF)**
- **Siblings/Kinship Fee Waiver**
- **PWWB Scholarships**
- **Federal Govt. Employees Benevolent Fund Scholarships**
- **Punjab Govt. Employees Benevolent Fund Scholarships**

CUI is committed to knowledge-sharing through quality education and actively engages the community by offering skills development programs. This includes hands-on training sessions, workshops, and seminars designed to enhance employability and professional skills.

Additionally, internships are provided to diploma holders and vocational trainers, allowing them to gain practical experience and improve their professional capabilities. The focus on poverty reduction extends to empowering women by creating equal opportunities for them to excel in their chosen fields.



Through these initiatives, COMSATS University aims to strengthen economic conditions, improve living standards, and ultimately contribute to the overarching goal of eradicating poverty.

A team of AIAA students Chapter from the Department of Mechanical Engineering (DME), CUI Wah Campus participated in and won RC plane flying competition Taakra'23 by the University of Central Punjab. The event was held from February 23-26, 2023, in which 14 teams from across the country showcased their skills and expertise in building and flying RC planes. The teams were first judged

based on their knowledge related to aerodynamics, electronics, and principles of flight. The team "Ascenders of CUI Wah Campus emerged victorious with an impressive flight time of 18 minutes. The team was composed of Mr. Usama Javed and Mr. Usama Akram, and the project was supervised by Assistant Professor, Dr. Muhammad Shoaib Naseem



To further its goals in poverty reduction, COMSATS University actively invests in capacity-building initiatives. On August 31, 2023, Ms. Sadia Nawaz, the In-charge of the Student Financial Aid Office (SFAO), attended a training session on the "Scholarship Management System" as part of the USAID-funded Merit and Needs-Based Scholarship Program (MNBSP). This training equips staff with the necessary tools to effectively manage scholarship applications and resources, ultimately enhancing the university's ability to support deserving students from low-income families.

By improving the efficiency of scholarship management, CUI aims to provide more opportunities for students to access quality education, thereby contributing to poverty alleviation and promoting sustainable development.

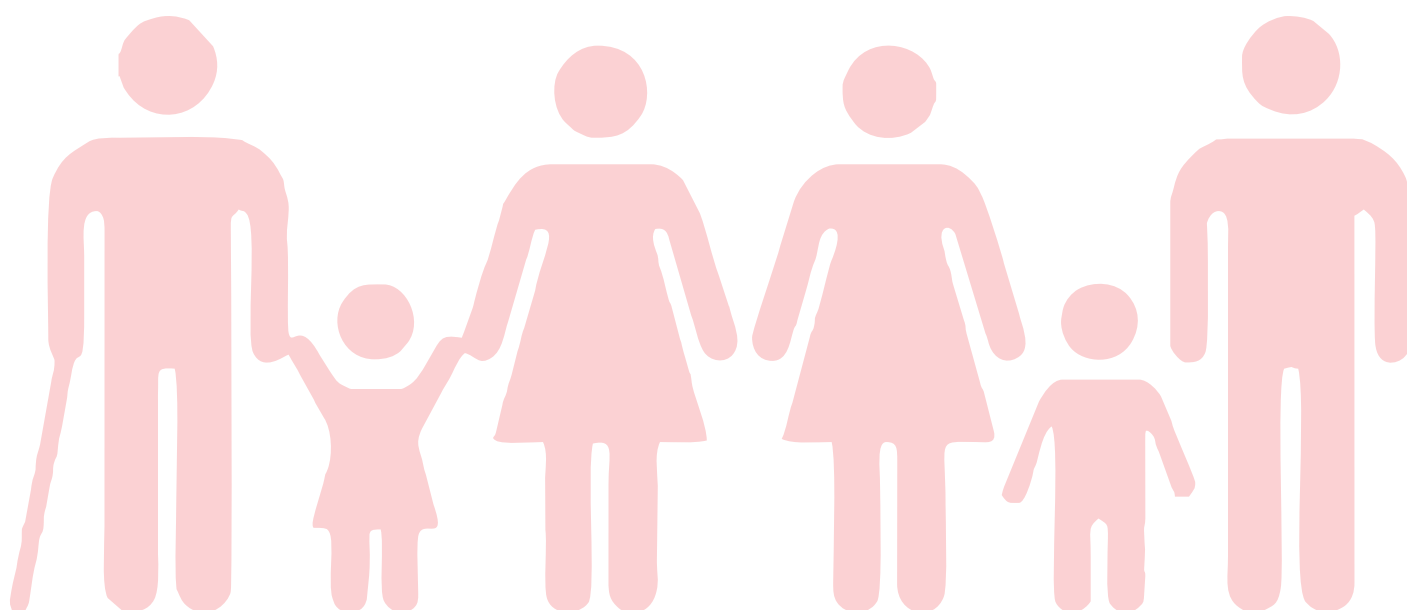


PUBLICATIONS

Publication Title	Author	Publisher	Impact Factor	Weblink
Distribution and speciation of trace elements in soils of four land uses of Diamer Region, Western Himalaya, Pakistan	U.H. Farid , Faridullah M. Irshad	Land	3.905	https://www.mdpi.com/2073-445X/12/10/1894
High drug carrying efficiency of boron-doped Triazine based covalent organic framework toward anti-cancer tegafur; a theoretical perspective	Abdulrahman Allangawi	NULL	0	https://www.sciencedirect.com/science/article/pii/S2210271X22004030
Mycorrhizal inoculation enhanced tillering in field grown wheat, nutritional enrichment and soil properties	Muhammad Akbar, Abdul Nazir	NULL	0	https://peerj.com/articles/15686/

Total:03

Comsats University Islamabad faculty engaged in quality research during 2023 in SDG1 department of Environmental Sciences won the project **“Spatio-temporal glacier variation and its influence on the water availability in Hunza Basin along the CPEC Route”** worth **8.3 million PKR**



CUI takes all possible measures to accommodate the students from all walks of life and offers various Internal and External scholarships for high achievers and needy students **during 2023 CUI offered 2279 external scholarships of 313,789,414 PKR & also offered Internal scholarships worth 913311209 PKR. to 13680 students.**

External Scholarships Jan-Dec 2023

COMSATS University Islamabad

Sr. No.	Scholarship Name	Number of Scholarship	Total
1	Workers Welfare Fund (WWF) Islamabad Campus	29	3,311,000
2	Punjab Workers Welfare Board (PWVB)	116	21,603,500
3	Scotland Scholarships Program (British Council)	36	11,245,150
4	Science Talent Farming Scheme (STFS) Islamabad Campus	3	1,001,704
5	FATA	2	392,800
6	Gilgit - Baltistan Scholarship	15	4,208,650
7	Allama Muhammad Iqbal (BS, MS & PHD)	237	95,107,590
8	OIC Scholarships	4	2,160,000
9	Pak-Sri Lanka	6	3,388,000
10	Ihsan Trust (Qarz-e-Hasna Scheme)	125	6,870,650
11	Ehsaas Scholarship	1,266	111,078,320
12	Punjab Education Endowment Fund (PEEF) Undergraduate Scholarship	17	1,638,800
13	Punjab Education Endowment Fund (PEEF) Master Level Scholarship	397	43,741,500
14	Balochistan Education Endowment Fund (BEEF) Scholarship	12	6,322,500
15	The Abdullah Foundation	5	1,270,750
16	CUI Endowment Fund	9	448,500
Total		2,279	313,789,414 PKR



SDG-2 ZERO HUNGER



Goal 2 Zero Hunger focuses on ending hunger, achieving food security, improving nutrition, and promoting sustainable agriculture by 2030. The triple burden of malnutrition — undernutrition, hidden hunger, and overweight—poses significant risks to the survival, growth, and development of children and young people. When children are well-nourished, they are more likely to grow, learn effectively, engage in their communities, and build resilience against diseases and emergencies.

In 2019, an estimated 690 million people were hungry, accounting for about 8.9% of the global population. Children and young people, particularly those from the poorest and most marginalized communities, are disproportionately affected by all forms of malnutrition. Alarming, nearly half of all deaths in children under five are linked to undernutrition. That year, 144 million children under five were stunted (21.3%), 47 million were wasted (6.9%, including 14.3 million severely wasted), and 38 million were classified as overweight (5.6%).

Moreover, malnutrition during pregnancy can have lasting impacts on children's health. In 2016, one-third of women aged 15 to 49 globally were affected by anemia, with little improvement over the previous two decades. Addressing these issues is essential for ensuring a healthier future for children, breaking the cycle of poverty, and achieving sustainable development.

1st Meeting of the Water, Environment & Agriculture Societies Consortium under Water Resource Accountability (WRAP)-Climate resilient Solutions for Improving water Governance (CRS-IWaG), IWMI - September 2023.

The 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 International Water Management Institute (IWMI), Lahore, Pakistan. On

behalf of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus, Engr. Sarmad Manzoor from the Department of Civil Engineering attended the meeting and delivered a presentation on the operational implementation plan of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus activities with respect to Water Resource Accountability (WRAP) and Climate resilient Solutions for Improving Water Governance. The Director –IWMI & PROJECT Leader WRAP, Dr Mohsin Hafeez presented a welcome address along with a brief introduction about the IWMI and overview of WRAP Programme. All invited member (academic institutions) of the consortium presented their progress and future plan of action for improving the water governance. The UNESCO Chair was actively participated and addressed the impacts of climate change on water resources accountability and resilient Solutions for Improving water Governance. This meeting provided a great networking opportunity for partners.



1st International Conference About COP27 Climate Change & Food Security - February ,2023

The Director Campus/UNESCO Water Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof Dr. Muhammad Abid,T.I., delivered the keynote address titled “Sedimentation –Threat to Dams and Food Security” in the 1st International Conference about COP27 Climate Change & Food Security on February 15, 2023 organized by the Arid Agriculture

University Rawalpindi, Department of Agronomy, Rawalpindi. He highlighted that dam sedimentation becoming a serious threat for the sustainability of irrigation and addressed the problems framed in water management, flood control, and production of energy. He emphasized in investigating the methods of removing sedimentation and the need to mapped storage fed irrigation



Soil Sampling Visit at Hazara Agriculture Research Station Abbottabad

Educational visit to the Hazara Agriculture Research Station for a hands-on experience in soil sampling. The visit aimed to provide students with practical insights into soil science, agricultural research, and sustainable farming practices.

Upon arrival, the Head, Department of Environment Prof. Dr. Faridullah and the students BES4 Soil Science were welcomed by station Director Mr. Nayyer sb and knowledgeable researchers who provided an overview of the station's mission and ongoing projects. The itinerary included a comprehensive session on the importance of soil sampling in precision agriculture, nutrient management, and environmental conservation.

The highlight of the visit was the practical demonstration of soil sampling techniques. Equipped with soil augers

and sampling tools, students actively participated in collecting soil samples from designated plots within the research station. They learned about the significance of sampling depth, grid-based approaches, and proper documentation. Researchers explained the relevance of parameters in optimizing crop productivity and environmental sustainability.

Following the fieldwork, the samples were brought into the environmental soil sciences lab and later on samples were processed in the COMSATS's soil sciences laboratory facilities. Students were engaged in hands-on activities involving soil analysis, including assessments of nutrient content, pH levels, and organic matter.

Throughout the visit, students had the opportunity to interact with experienced agronomists/soil scientist and researchers, posing questions and engaging in discussions about emerging trends in nutrients dynamics and soil management.

The trip concluded with a debriefing session where students shared their observations, insights, and newfound knowledge. They expressed appreciation for the practical aspects of soil sampling and its direct applicability to real-world agricultural scenarios. The visit not only enhanced their understanding of soil science but also inspired an appreciation for the intricate relationship between soil health and sustainable agriculture.

In summary, the student visit to the Hazara Agriculture Research Station Abbottabad for soil sampling proved to be an enriching and educational experience. It provided a unique blend of theoretical knowledge and practical skills, fostering a deeper understanding of the critical role soil plays in agricultural ecosystems.



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Public outreach and environmental awareness campaign by faculty of Department of Environmental Sciences, CUI, Abbottabad Campus

Faculty members of Department of Environmental Sciences, *Dr. Romana khan, Dr. Usman Irshad* and *Dr. Akhtar Iqbal, conducted a training and outreach session at Govt Girls Degree College No.1 Mansehra on Wednesday, November 29th, 2023. Title of the talk was "Environmental challenges of Pakistan and role of Environmental Sciences Department COMSATS Abbottabad."

The Principal of the College Mrs Farzana Shaheen, Head of the Department and faculty members of the Department of Botany and Chemistry also attended the session.



The Department of Environmental Sciences aims to align its future goals with the Sustainable Development Goals (SDGs) in next five years (2025 -2030). It will focus on research and innovation for sustainable technologies, climate action, and biodiversity conservation. The department plans to integrate sustainability education into its curriculum and promote community awareness through workshops and seminars. It will also engage in sustainable urban development, water and sanitation management, and sustainable agriculture. Collaborating with local and international partners, the department will work towards effective environmental policies and governance. It is committed to fostering inclusive and gender-equal approaches in all initiatives. By prioritizing these areas, the department strives to contribute meaningfully to achieving the SDGs and

promoting a sustainable and resilient future for all.

Department of Environmental Sciences (CUI-Abbottabad) and WSSC Abbottabad are co-organizing an event i.e., “World Cleanup Day 2023” on Tuesday November 07, 2023, by arranging

roof to share and deliberate the challenges posed to the forests in Pakistan specifically deforestation, role of timber mafia, industrial and commercial activities in the forest area (such as mining and real estate development), encroachment and agricultural expansion. Speakers also shared valued ideas with the students for further research in these domains. The management of the department extends hearty gratitude to the participants and encourages the faculty to hold similar activities in future on the themes that warrant the attention of the experts. This way the society may benefit, and the positive image of the department may be relayed among the stakeholders. I also thank the campus administration offices for the logistic and managerial support they provided. I owe profound gratitude to the Worthy Director for his gracious and amiable presence and for sharing his genuine thoughts and observations with the participants.

different contests e.g., short-videos, posters-design, and catchy slogans for the theme.

The Department of Environmental Sciences organized “International Seminar on Forest Health and Environment” at the CUI, Abbottabad Campus on October 5, 2023. The seminar was massively attended by the teachers, officials from the forest department, graduate and undergraduate students. The speakers gave insightful talks and enriching experiences to the attendees enlightening their souls and minds. Dr. Akhtar Iqbal, organizer of the event, brought together students, faculty members, and esteemed speakers from various Govt. departments under one



PUBLICATIONS

Publication Title	Author	Publisher	Impact Factor	Weblink
Estimating impact of climate change adaptation on productivity and earnings of dairy farmers: evidence from Pakistani Punjab	Qasir Abbas	Environment, Development and Sustainability	5	NULL
Food waste: causes and economic losses estimation at household level in Pakistan	Samina Khalid Aman Ullah Malik Muhammad Irfan Ullah	Springer	5.8	https://link.springer.com/article/10.1007/s11356-023-28775-4#:~:text=In%20high%2Dincome%20households%2C%20monetary,capita%20per%20annum)%20(Fig.
Zinc oxide nanoparticles mediated biostimulant impact on cadmium detoxification and in silico analysis of zinc oxide-cadmium networks in Zea mays L. regulome	Yashfa Tanveer Saman Jahangir Zafar Abbas Shah	Environmental Pollution	9.988	NULL

Total Publications:20

CUI Faculty always stive for quality in each aspect of research during 2023 in SDG-2 many research projects of 8.7 million worth have been executed, among them the project **“Fabrication of ultra-sensitive, on-site monitoring devices for antibiotic drug residues in food safety and quality assurance applications”** is worth mentioning





SDG-3 GOOD HEALTH AND WELL-BEING



Goal 3 of the Sustainable Development Goals (SDGs) focuses on ensuring healthy lives and promoting well-being for everyone, at all ages. This goal addresses all major health priorities: reproductive, maternal, newborn, child and adolescent health; communicable and non-communicable diseases; universal health coverage; and access for all to safe, effective, quality and affordable medicines and vaccines. SDG 3 aims to prevent needless suffering from preventable diseases and premature death by focusing on key targets that boost the health of a country's overall population. Regions with the highest burden of disease and neglected population groups and regions are priority areas. Goal 3 also calls for deeper investments in research and development, health financing and health risk reduction and management.

SDG 3 is vital for sustainable development, as health is intricately linked to various aspects of individual and community well-being. In this regard, CUI are established in all CUI campuses medical centres. The goal of this Medical Centre is to treat its Employees, Students & Faculty members in the most effective manner possible considering available resources and competing needs & maintains a formulary of life saving drugs and other essential drugs that are provided free of cost to the employees and students of CUI. Following is the patient progress report the reporting

Patients	No. of Patients (Male)	No. of Patients (Female)	Total
Staff	3730	1422	5152
Students	2373	4083	6456
Total Patients	6103	5505	11608

Emergency Patients	
Staff	58
Students	172
Total	230

Emergency Patients Shifted Hospital.	
Staff	36
Students	40
Total	76

period.

Blood Donation Camp

The Pakistan Red Crescent Society (PARC) organized a Blood Donation Camp at CUI on May 23, 2023. More than one hundred volunteers showed interest in donating blood out of which 91 blood units were collected for saving the lives of critical patients in emergency who fighting against dread diseases. The donor students and employees' aim are



to serving the humanity and to save many precious lives.

The Disaster Management Committee (DMC) organized a training session to provide first-aid training to first-semester students in the BBA and BSAT programs. This initiative aimed to equip students with essential skills to manage unforeseen catastrophic events effectively. The session was conducted in collaboration with the Red Crescent Society of Islamabad.

The mantra "First aid is better than late aid" emphasizes the importance of timely intervention in emergencies. Therefore, enhancing awareness and support for first-aid training is crucial, and more sessions like this should be organized



regularly to prepare students for any emergencies they may encounter in the future.

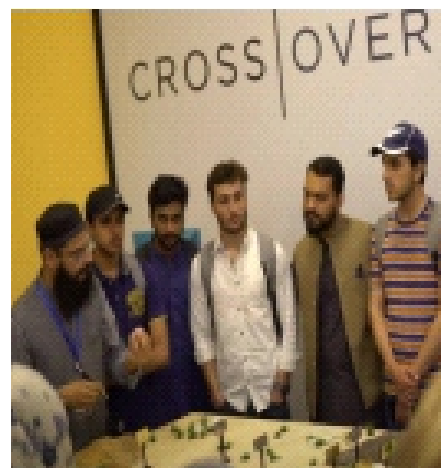
Character Building at CUI Wah

To spread the knowledge on the practical implementations and wellbeing of the principles needed to be followed in our daily lives considering the Seerat of Prophet Muhammad (PBUH). The Department of Electrical and Computer Engineering on April 6, 2023, organized a seminar on character building through Seerat un-Nabi S.A.W. The Guest Speaker, renowned scholar of Islamic studies, Assistant Professor and Head of the Department at Riphah International University Islamabad. Dr. Hafiz Waqas Khan delivered a very comprehensive lecture on the Life and Times of Prophet Muhammad S.A.W. He addressed important aspects of Seerat un-Nabi S.A.W considering Qur'an affecting today's society with the special emphasis on character building.

Skills Development Rising by Lifting Others - Seerat Exhibition

On October 5, 2023, the Department of Electrical and Computer Engineering, in collaboration with the Qirat & Naat Society of CUI, Al-Madina Islamic Research Centre (MIRC), and Nibras Institute, organized an educational exhibition focused on the life and teachings of the Holy Prophet Muhammad (SAWW).

Visitors were provided insights into the character and mission of the Holy Prophet, highlighting his significant role in Islamic history and the understanding of Islam. To inspire a deeper appreciation of



the Prophet's Seerah, the exhibition featured a variety of artifacts, interactive presentations, and multimedia elements designed to engage attendees.

This initiative aimed to encourage learning about the Prophet's life, teachings, and the historical context in which he lived. The event saw a strong turnout, with many students, faculty, staff, and representatives from civil society in attendance. staff, and representatives from civil society in attendance.

On July 12, 2023, the Outreach Program Committee at CUI Wah Campus organized an informative awareness session. The event began with a warm welcome from Dr. Ambreen Shahnaz, who introduced the Outreach Program team, speakers, and event logistics.

Dr. Yaar Khan, the Convener of the Outreach Program Committee, shared insights into the fundamentals of the UN Sustainable Development Goals (SDGs), outlining the committee's objectives and initiatives.



Ms. Nabila Raheem, a professional clinical psychologist, addressed adolescent development and emphasized the importance of mental health for socialization, as well as common causes of mental illness.

Dr. Hira Khan, a medical professional, provided valuable tips on maintaining a healthy lifestyle and precautionary measures for staying active. Additionally, Dr. Rukhsana Sheikh, a renowned gynaecologist, discussed reproductive health as an integral aspect of overall physical, mental, and social well-being

Rescue 1122 Training to Students on May 23, 2024

Under the directives of Dr. Ayaz Khan, Director General Rescue 1122 Khyber Pakhtunkhwa, and Mr. Arshad Iqbal, Regional Director North, and under the supervision of District Emergency Officer Mr. Arif Khattak and Training Wing In charge Mr. Malik Kamran, the Rescue 1122 team from Abbottabad provided

training to the students of COMSATS University Abbottabad Campus. The training covered the services of Rescue 1122, first aid, basic firefighting, and disaster response. The Rescue Training Wing team conducted practical exercises in first aid and firefighting for the students.



District Emergency Officer Mr. Arif Khattak and COMSATS University Director MERIT.PROF.DR. IMTIAZ ALI KHAN also participated in the training session. Mr. Arif Khattak provided a comprehensive overview of the services offered by Rescue 1122. He invited the students of COMSATS University Abbottabad Campus to visit the Rescue District Office and Station, an invitation which was graciously accepted by MERIT.PROF.DR. IMTIAZ ALI KHAN. On this occasion, MERIT.PROF.DR. IMTIAZ ALI KHAN appreciated the services of Rescue 1122 Abbottabad and thanked the Rescue team.



Problem Solving Contributes to 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. 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.



PUBLICATIONS

Publication Title	Author	Publisher	Impact Factor	Weblink
Prevalence of diversified antibiotic resistant bacteria within sanitation related facilities of human populated workplaces in Abbottabad	Ayaz Hassan Rafael N. P. Colombo Rodrigo M. Iost	Elsevier	7.336	NULL
Residues of endosulfan in cotton growing area of Vehari, Pakistan: an assessment of knowledge and awareness of pesticide use and health risks.	Iqbal, S., Khan, T. M. Naqvi, S. S.	IEEE	7.7	https://ieeexplore.ieee.org/document/10312820
Reverse Offset Printed, Biocompatible Temperature Sensor Based on Dark Muscovado	AbuAli, Najah Muhammad Bilal Khan Farman Ullah	Elsevier	18.6	NULL
Safety assessment of foods at Capital hospital of Pakistan through the Hazard Analysis and Critical Control Point system	Aftab Jamal, Muhammad Farhan Saeed	Frontiers in Plant Science	6.627	https://doi.org/10.3389/fpls.2023.1034421
Screening of Human Circular RNAs as Biomarkers for Early Onset Detection of Alzheimer's Disease	Umar Daraz, Iftikhar Ahmad, Qu-Sheng Li	Ecotoxicology and Environmental Safety	6.8	https://doi.org/10.1016/j.ecoenv.2023.115657
Silk fibroin/collagen 3D scaffolds loaded with TiO2 nanoparticles for skin tissue regeneration	Aqsa Tariq, Amina Arif, Muhammad Akram	Elsevier	12.5	https://doi.org/10.1016/j.bios.2023.115833
Silk fibroin/collagen 3D scaffolds loaded with TiO2 nanoparticles for skin tissue regeneration	Natasha Bokhari, Asif Ali, Abida Yasmeen	International Journal of Biological Macromolecules	8.2	https://www.sciencedirect.com/science/article/pii/S0141813023041818
Single-step synthesis of magnesium-iron borates composite; an efficient electrocatalyst for dopamine detection	Jin Feng, Youle Zheng, Wanqing Ma, Awais Ihsan, Haihong Hao, Guyue Cheng, Xu Wang	Pharmacology & Therapeutics	13.5	https://www.sciencedirect.com/science/article/abs/pii/S0163725823002140
Some Properties of Magnetite Nanoparticles Produced under Different Conditions	Tehseen Zia, Abdul Wahab, David Windridge	Computers in Biology and Medicine, ScienceDirect	7.7	https://www.sciencedirect.com/science/article/abs/pii/S0010482523009861
Stability Analysis and Solutions of Dynamical Models for Dengue	Syed Ali Tariq, Tehseen Zia, Mubeen Ghafoor	Knowledge-Based Systems, ELSEVIER	8.8	https://www.sciencedirect.com/science/article/abs/pii/S0950705122009947
Stability Analysis of COVID-19 via a Fractional Order Mathematical Model	Saddaf Rashid, Rafiq Ahmad, Muhammad Azeem, Dunia A. Al Farraj, Sabaz Ali Khan, Mohamed Soliman Elshikh, Arshad Mehmood Abbasi	Elsevier	6.212	NULL
Subcutaneous veins depth measurement using diffuse reflectance images	Muhammad Samie	Elsevier	8.2	https://www.sciencedirect.com/science/article/pii/S0141813022032160
Swarm Intelligence Based Resource Management for Cooperative Cognitive Radio Network in Smart Hospitals	Muhammad Samie, Ather Farooq Khan, Saeed Ur Rahman	ScienceDirect	6.953	https://www.sciencedirect.com/science/article/pii/S0141813022032160
Synthesis and evaluation of amide and thioureas derivatives as Carbonic Anhydrase (CAs) inhibitors	Asmat Ali, Zahid Ullah, Maria Siddique, Junaid Ghani, Abdur Rashid, Warda Khalid, Muhamad Inayat Ullah Khan, Waqas Ashraf,	NULL	6.7	https://www.x-mol.net/paper/article/1667798727617396736

Total Publications in SDG 3: 158, only High Impact factor publications are mentioned here

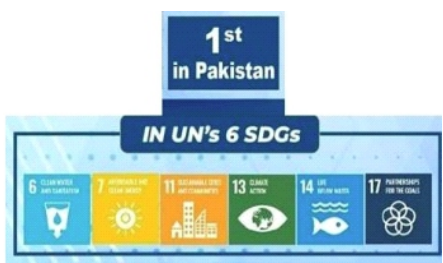
During 2023 in SDG-3 CUI faculty conducted research in various projects worth 10.13 million PKR among them a project “**Electrochemical immunosensor for highly sensitive detection of ovarian cancer biomarker CA 125 for financial assistance under research support programme (PSF)**” is worth mentioning.



SDG-4 QUALITY EDUCATION



Goal 4 of the Sustainable Development Goals (SDGs) seeks to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. This goal is critically important due to its transformative impact on other Sustainable Development Goals (SDGs). Sustainable development relies on every child receiving a quality education. When children are equipped with the tools to reach their full potential, they grow into productive adults who can contribute to their communities and help break the cycle of poverty. Education fosters upward socioeconomic mobility, enabling individuals to improve their circumstances and create a better future for themselves and their families. By investing in education, we lay the foundation for a more sustainable and equitable society.



COMSATS University Islamabad (CUI) is dedicated to building adaptive capacity for educational goals and advancing the Sustainable Development Goals (SDGs) through quality higher education. A key focus is on empowering women, enabling them to become active participants in society. CUI provides a platform for students to enhance their skills through knowledge-sharing activities, fostering personal development and encouraging them to contribute positively as engaged members of their communities.

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

On September 14, 2023, the Department of Computer Science, along with the ACM Student Chapter at CUI Islamabad Campus, organized a successful seminar that drew a full audience and an enthusiastic response from Computer Science students.

Guest speakers Lecturer Mian Muhammad Talha and Ms. Maha Rasheed from the Department shared their industry experiences and highlighted exciting opportunities available to students. The seminar concluded with an engaging discussion session and a Q&A, further enriching the attendees' knowledge and insights into the field.

Quality Assessment

The team of National Computing Education Accreditation Council (NCEAC) visited CUI at Islamabad

campus on February 27, 2023, for the conduct of an accreditation audit of BS(CS) intake batches of Fall 2018, Spring 2019, and Fall 2019 and BS(SE) Fall 2018, Spring 2018 and Spring 2019. The Pakistan Engineering Council (PEC) conducted OBE based Re-Accreditation visit for BS Civil Engineering on June 23, 2023. The in-charge Campus gave a presentation regarding CUI and facilities and infrastructure for imparting quality education to students and highlighted research and future development plans.

IELTS Preparation

A seminar on —IELTS Preparation was arranged by ASHRAE Society of Department of Mechanical Engineering CUI Wah Chapter. Dr. Ayyaz Qadeer, Assistant Professor, Management Sciences Department was the resource person. The students were guided IELTS basics, exam details. He explained different tips of getting higher bands



Industrial Open House and Career Job Fair

COMSATS University Islamabad (CUI), Wah Campus organized Open House and Job Fair on June 8, 2023, for the graduating students of Spring Semester 2023. In this event, more than 600 graduating students showcased their 237 Final Year Projects (FYPs), from the six different disciplines, Electrical & Computer Engineering, Civil Engineering, Mechanical Engineering, Computer Science, Software Engineering, and Management Sciences. More than 145 companies participated, shortlisted, interviewed graduating students, and offered jobs. Judges from industry and academia evaluated these projects,

appreciated, and guided them with their valuable input. Industrial and academic representatives, faculty, and students visited and inspected the flagship projects. Prof. Dr. Shahid Mahmood Baig, S.I., Chairman, Pakistan Science Foundation (PSF) graced the occasion as the Chief Guest. In his opening remarks, he emphasized on the importance of the industry-Academia partnership inculcating scientific research work environment in the country which is vital for the prosperity of Pakistan. .



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

The Department of Mechanical Engineering in collaboration with ASME CUI 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

PhD Scholars Successfully Passed their PhD defense

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.

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

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

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.

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.



PUBLICATIONS

Publication Title	First Author	Publisher	Impact Factor	Weblink
Fekete–Szegő Problem and Second Hankel Determinant for a Class of Bi-Univalent Functions Involving Euler Polynomials	Sadia Riaz, Timilehin Gideon Shaba, Qin Xin, Fairouz Tchier, Bilal Khan, Sarfraz Nawaz Malik	Fractal and Fractional (MDPI)	5.4	https://www.mdpi.com/2504-3110/7/4/295
On Coefficient Inequalities of Starlike Functions Related to the q-Analog of Cosine Functions Defined by the Fractional q-Differential Operator	Yusra Taj, Sarfraz Nawaz Malik, Adriana Catas, Jong-Suk Ro, Fairouz Tchier and Ferdous M. O. Tawfiq	Fractal and Fractional (MDPI)	5.4	https://www.mdpi.com/2504-3110/7/11/782
On Inequalities and Filtration Associated with the Nonlinear Fractional Operator	Maryam Nazir, Syed Zakir Hussain Bukhari, Jong-Suk Ro, Fairouz Tchier and Sarfraz Nawaz Malik	Fractal and Fractional (MDPI)	5.4	https://www.mdpi.com/2504-3110/7/10/726
On network construction and module detection for molecular graph of titanium dioxide,	Muhammad Kamran Siddiqui, Sana Javed, Sadia Khalid, Naima Amin, Mazhar Hussain	Journal of Biomolecular Structure and Dynamics	5.32	https://www.tandfonline.com/doi/full/10.1080/07391102.2022.2155703

Total Publications :68, only high impact factor publications are highlighted here

In 2023 year, there were several research projects executed from different departments having worth of 1.98 million PKR in SDG 4 among them **“Prototype for Blockchain based Land Record Management System”** and **“Quantum image processing-based image classification and recognition”** are worth mentioning.





SDG-5 GENDER EQUALITY



Goal 5 of the the 2030 Sustainable Development Agenda is indeed crucial for fostering gender equality and empowering women and girls. Achieving this goal requires addressing systemic barriers that girls and women face, particularly in adolescence. The challenges you mentioned, such as domestic responsibilities, early marriage, early pregnancy, and gender-based violence, highlight the urgent need for societal change.

Child marriage and female genital mutilation are severe violations of human rights that affect millions of girls worldwide. Ending these practices is essential not only for individual well-being but also for achieving broader development goals.

Promoting education, access to healthcare, and economic opportunities for girls can help dismantle harmful gender norms. Additionally, engaging boys and men as allies in promoting gender equality is vital for creating a more equitable society.

Efforts must be made at all levels—from community initiatives to policy reforms—to ensure that girls and women can live free from violence and discrimination and have the opportunity to reach their full potential. CUI being an educational institutions arranges several events to promote women and girls rights.



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, and reflects a successful and insightful gathering. 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. Keynote speakers, including notable figures from both Pakistani and US educational and professional sectors, emphasized the importance of skill development, technological adaptation, and innovative thinking in preparing the workforce for future challenges. Interactive sessions and workshops focused on practical strategies for integrating advanced technologies and entrepreneurial skills into Pakistan's workforce development.



The event also highlighted PUAN's commitment to strengthening Pak-US relations through educational and professional exchanges, underscoring the importance of international collaboration in addressing global workforce challenges. The enthusiastic participation and positive feedback from attendees underscored the event's success in providing valuable insights and fostering connections that contribute to the ongoing development of Pakistan's workforce.



Winning the Project Funding under US Incubation Program

The collaboration between BIC-CUI and the US RAIN Catalyst to empower women entrepreneurs in Pakistan is a significant step toward fostering innovation and supporting local talent.

Ms. Kiran Rashid's project on the design and fabrication of a high-energy ball mill for synthesizing nanoparticles is

particularly noteworthy. By focusing on additive manufacturing and addressing the need for locally produced materials, her work not only contributes to technological advancement but also reduces reliance on imports, which is vital for Pakistan's industrial growth.

Empowering women like Ms. Rashid in STEM fields can have a transformative impact on society, encouraging more women to pursue careers in engineering and technology. This project is a great example of how targeted support can lead to tangible advancements and inspire future generations of women in science and entrepreneurship.

Celebration of International Women Day

To uplift women's accomplishments and to highlight the success of bright and ambitious female scholarship awardees of USAID Merit and Needs Based Scholarship Program (MNBSP), the student of MS (CS) from CUI Wah Campus Ms. Laraib Fatima Talib appreciated and treated as a special case on her exceptional skills of intelligence and adds her success story of the USAID Scholarship Program on the occasion of the International Women Day on March 7, 2023.



The event was organized by the Higher Education Commission (HEC) and the United States of America Mission to Pakistan. The USAID Merit and Needs Based Scholarship Program motivates the young women to access higher education to achieve academic and professional milestones.

All Pakistan Inter University Bilingual Declamation Contest Gender Equality – 2023

Ms. Reemal Imtiaz from the Department of Computer Science has secured the 2nd position in All Pakistan Inter University Bilingual Declamation Contest

2023 held at HEC on May 4, 2023, Islamabad.



She participated in the English contest on the theme, 'My Constitution - Guarantee of My Freedoms', organized to celebrate the 50th anniversary of the Constitution of Islamic Republic of Pakistan by the Higher Commission of Pakistan (HEC). Federal Minister for Law and Justice Azam Nazeer Tarar was the Chief Guest

of the event. On the occasion the Chairman HEC, Dr. Mukhtar Ahmed, Executive Director HEC, Dr. Shaista Sohail and other dignitaries congratulated the winners and emphasized on the role of leaders and teachers in nation building. The Vice Chancellor, Faculty Members and large number of students from All Pakistan Inter University Bilingual Declaration Contest Gender Equality - 2023 different universities attended the event.

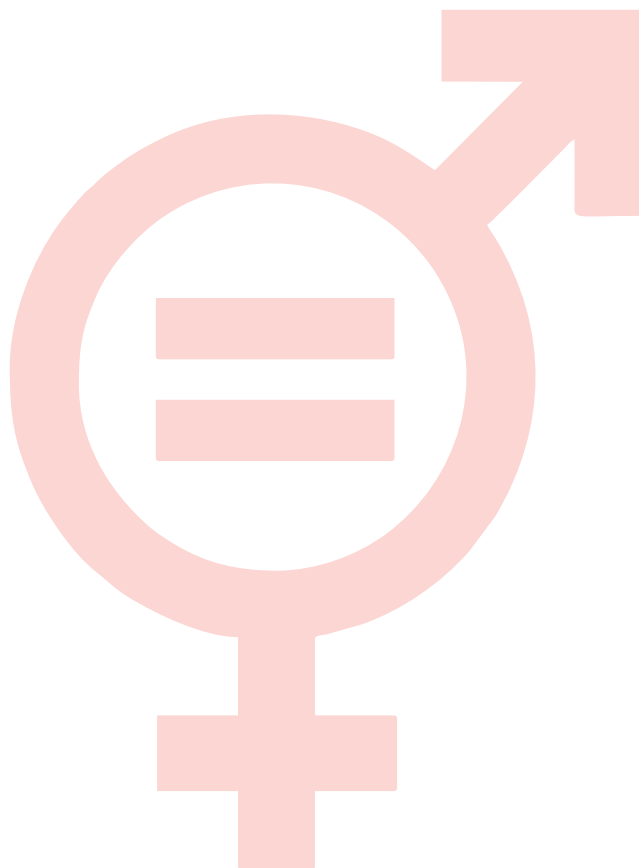
Outreach to Communities

Dr. Ambreen Shahnaz, Assistant Professor from Department of Management Sciences conducted the training session titled "Cascading Knowledge: Sharing My Experience as an OPEN Alumni on Availing Exchange Programs" on May 24, 2023, at WISE School and College (TRUST) Wah Cantt. The training was aimed to implement the

outreach activities of CUI, Wah Campus and to highlight personal experiences, knowledge sharing, and encouraged others to participate in professional development programs. The event was well-attended by 25 female School Teachers and Principals.

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.



PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Derogatory Portrayal of Female Characters in Pakistani Urdu TV Dramas	Shagufta Mumtaz, Muhammad Asif Javed, Aqeela Asif	Asian Journal of Academic Research (AJAR)	0	http://www.ajar.org.pk/index.php/home/article/view/2022-vol-3-derogatory-portrayal-of-female-characters
Digital Appropriation of Children's Literature: A Postmodernist Critique of Red Riding Hood	Neelum Almas	Journal of Gender and Social Issues	2	https://jgsi.fjwu.edu.pk/jgsi/article/view/347/275
Measurement and Determinants of Rural Women's Empowerment in Pakistan.	Sidra Ishfaq, Abedullah, Shahzad Kouser	Global Social Welfare	0	https://link.springer.com/article/10.1007/s40609-023-00275-w
Mucoadhesive, Fluconazole-Loaded Nanogels Complexed with Sulfhydryl- β -cyclodextrin for Oral Thrush Treatment	Farwa Muskan Khalid, Muhammad Ijaz, Arshad Mahmood	Springer International Publishing	3.3	https://link.springer.com/article/10.1208/s12249-023-02653-1
Nexus between financial inclusion and women empowerment: evidence from developing countries	Ameena Arshad	Emerald: Gender in Management	3.337	https://www.emerald.com/insight/content/doi/10.1108/GM-04-2022-0125/full/html
The survival of outward investments from China and India: Is there a North-South divide?	Suma Athreye, Abubakr Saeed	Elsevier	0	https://www.sciencedirect.com/science/article/abs/pii/S0148296322008396

Total:06

CUI Faculty strive for quality research without any discrimination and gender biased approach during 2023 there were many projects initiated among them **“PAK-UK Education Gateway Mobility Partnership for female faculty”** of **9.7 million PKR** was initiated at CUI Abbottabad Campus



SDG-6 CLEAN WATER AND SANITATION



Goal 6 is indeed vital for ensuring the health and well-being of people and the planet. Access to safe drinking water and adequate sanitation is fundamental to achieving a range of other Sustainable Development Goals (SDGs), including those related to health, education, and gender equality.

Achieving Goal 6 requires a concerted global effort to invest in infrastructure, innovate in water management practices, and ensure equitable access to these critical resources for all.

The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) at CUI Wah Campus organized a one-day Workshop on the Hydrological Modelling Application of SWAT on February 28, 2023 in collaboration with the Department of Civil Engineering. The resource person, member IWRM / Lecturer, Engr. Summera Fahmi from the Department of Civil Engineering shared her knowledge and expertise on Hydrological modelling techniques to identify the watersheds, Soil, and Water Assessment Model (SWAT) of the Gilgat, Pakistan to study, water quality, sediment and effects of climate change. The researchers from the CUI Abbottabad, PCRWR and Workshop on Hydrological Modelling Application of SWAT Clean Water and Sanitation Ensure Availability and Sustainable Management of Water and Sanitation for graduate/ undergraduate students from CUI attended the workshop. The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid, T.I., in his closing remarks emphasized on the capacity building in the adaptation of improving technologies in research and development.



Celebrations of World Water Day - 2023

In recognition of World Water Day an annual United Nations (UN) observation day held on every March 22 arranged a seminar on "Accelerating Change for Water Security in a Changing Climate: Innovative Solutions for Improved Resilience" on March 16, 2023. The aim of the seminar is to build the attention of society on the importance of water security and sustainable management of freshwater resources, and the effects of climate change on our livelihood. This year, the theme of the World Water Day is "Accelerating Change". The speaker Dr Amjad Masood, Senior Scientist, an expert in Hydrology and Climate Change at Basin Scale in Water Resources and Glaciology Section of Global Change Impact Studies Centre (GCISC), Islamabad, Pakistan. He highlighted the issues faced by Pakistan due to climate change. The Chief Guest of the seminar was the Vice Chancellor of the University of Wah, Prof. Dr. Jameel Un Nabi. In his remarks he appreciated the importance of water as a natural resource, and it uses in our daily lives. He encouraged the youth to take an initiative to save water and avoid its wastage in daily usage for the betterment of the community. The closing remarks presented by the UNESCO Chair on Knowledge Systems for IWRM/ Director Campus. He discussed the future need of wastewater recycling that freshwater makes up only 2% of the total water on Earth, which humans use every day.

One Day Hands on Workshop

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, Engr. Summera Fahmi Khan shared her knowledge and expertise with the participants. She deliberates by analysing and predicting weather patterns affecting climate change, unravelling intricate patterns and trends within complex environmental datasets considering Pakistan's environment.



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 artwork (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. Waterwise Summit: Unveiling Solutions through Youth Voices Clean Water and Sanitation 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.

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



National Exhibition December 7 - 8, 2023

The students of CUI under the platform of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI 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 students. 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: a. Transformation for sustainable and climate resilient solutions b. Politics, policy, and institutions- good governance and strengthening capacities c. Technologies and innovations- responding to the climate change 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.



PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Activated sodium percarbonate-ozone (SPC/O ₃) hybrid hydrodynamic cavitation system for advanced oxidation processes (AOPs) of 1,4-dioxane in water	Kirill Fedorov, Noor S. Shah	Chemical Engineering Journal (Elsevier)	15.1	https://www.sciencedirect.com/science/article/abs/pii/S1385894722065081
Comparative study of ZIF-8-materials for removal of hazardous compounds using physio-chemical remediation techniques	Bazla Sarwar, Asad Ullah Khan, Muhammad Aslam	Elsevier	8.3	https://www.sciencedirect.com/science/article/pii/S0013935122024951
Efficient removal of norfloxacin using nano zerovalent cerium composite biochar-catalyzed peroxydisulfate	Jibran Iqbal, Noor S. Shah	Journal of Cleaner Production	11.07	https://www.sciencedirect.com/science/article/pii/S0959652622039774
Macroalgal biochar synthesis and its implication on membrane fouling mitigation in fluidized bed membrane bioreactor for wastewater treatment	Muhammad Maaz, Muhammad Aslam, Muhammad Yasin	Elsevier	8.8	https://www.sciencedirect.com/science/article/pii/S0045653523004642?via%3Dihub
Mesoporous LaVO ₄ /MCM-48 nanocomposite with visible-light-driven photocatalytic degradation of phenol in wastewater	Iqra Mahboob, Sumeer Shafique, Iqrash Shafiq	Elsevier	8.3	https://www.sciencedirect.com/science/article/pii/S0013935122023106
Novel approach to grow nanosized BiFeO ₃ , CoFe ₂ O ₄ and NiFe ₂ O ₄ on Amberlyst-15 for efficient sorption of Cd ²⁺ ions	Zubaah Khalid, Shahzad Hussain, Fozia Bibi	Elsevier	8.6	https://doi.org/10.1016/j.seppur.2023.124666
Photocatalytic degradation of industrial dye using hybrid filler impregnated poly-sulfone membrane and optimizing the catalytic performance using Box-Behnken design	Sadaf Ul Hassan, Sidra Shafique, Bushra Anees Palvasha	Elsevier	8.8	https://www.sciencedirect.com/science/article/pii/S004565352203911X
Porous Ag ₃ VO ₄ /KIT-6 composite: Synthesis, characterization and enhanced photocatalytic performance for degradation of Congo Red	Iqra Mahboob, Iqrash Shafiq, Sumeer Shafique	Elsevier	8.8	https://www.sciencedirect.com/science/article/pii/S0045653522036736
Remediation technologies for acid mine drainage: Recent trends and future perspectives	Umar Daraz, Yang Li, Iftikhar Ahmad	Elsevier	8.943	https://doi.org/10.1016/j.chemosphere.2022.137089
Theoretical investigation on the degradation of sulfadiazine in water environments: Oxidation of •OH, SO ₄ •- and CO ₃ •- and reactivity of (TiO ₂) _n clusters (n=1–6), 109994, (2023).	Mengmeng Xu, Suding Yan, Xiufan Liu, Simei Sun, Zia Ul Haq Khan, Wenzhong Wu, Jingyu Sun.	Elsevier	7.96	NULL

Total Publications 60, only high impact factor publications are highlighted here

In SDG 6 different projects were going on among them a project titled **“Drone Robotic Fish for Flowing Water Disease Detection and Analysis”** of **PKR 3.444 million** was carried out by the faculty member of CS department of CUI Islamabad Campus



SDG-7

AFFORDABLE AND CLEAN ENERGY



Goal 7 emphasizes the importance of affordable, reliable, sustainable, and modern energy for all, especially for children. Access to sustainable energy significantly enhances the quality of life, enabling essential services that are crucial for children's survival, development, and well-being.

In homes, reliable modern lighting allows children to complete their homework and perform daily tasks after dark, while adequate heating and cooling create a comfortable living environment. For health centres and schools, energy is vital for lighting, operating medical equipment, cooking, and maintaining digital connectivity. Poor electricity access is linked to lower educational performance, decreased school attendance, and challenges in attracting and retaining qualified teachers.

Moreover, sustainable energy solutions can significantly reduce indoor air pollution, which is a major health risk for children. The burning of solid fuels in homes contributes to severe health issues, resulting in over half a million deaths among children under five each year, along with long-term damage to their developing brains and lungs. By addressing energy needs sustainably, we can improve health outcomes and educational opportunities for children, fostering a brighter future.

At CUI's campuses, all buildings are designed and constructed with a strong emphasis on energy efficiency, adhering to standards set by the Capital Development Authority (CDA) and the government of Pakistan. Energy-efficient buildings play a crucial role in reducing energy consumption and minimizing environmental impact. They also create a more comfortable and sustainable environment for occupants, promoting overall well-being. By prioritizing energy efficiency, CUI contributes to a more sustainable future while enhancing the quality of life for its community.

CUI is moving towards renewable energy production like Solar Power Plants:

a) 100 KW Solar Power Plant Operational

b) 850 KW Solar Power plant at Islamabad Campus has been planned and recommended by the

Campus Works Committee is under execution

c) 300 KW Solar Generation Facility at CUI, Sahiwal Campus has been implemented

d) 400 KW system at CUI Wah Campus is at contract signing stage

At CUI the Building Management System (BMS) is installed to control and monitor HVAC. The aim of BMS is to maintain occupant comfort and ensure occupant safety, whilst delivering energy efficiency and lower operating costs. Separate management systems for CCTV and firefighting are also in place and operated by the concerned departments.

Energy Research Centre, COMSATS University Islamabad, situated at its beautiful Lahore campus, has taken the year 2022 as an opportunity to grow in terms of capacity building within and outside the Centre, enhance industrial and organizational networking and relations, provide consultancy and continue the tradition of research and development in the form of funded projects, lab development and peer-reviewed impact factor journal publications. ERC continues to contribute in various sectors and intends to play its part in R&D as well as policy formulation in the context of energy and environment for Pakistan. The of Central Asia Regional Economic Cooperation (CAREC) region's energy demand is expected to grow to 30 % by 2030, including electricity as the major resources of consumption. At present Pakistan, which is a member country of CAREC, is faced with challenges of Climate Change and its impact, witnessed through devastating floods in 2022, and high-cost fuels for industrial, transport and residential applications. With the present critical economic situation of our country, the need for the inclusion of renewables was never as critical, as it is today, since these offer a clean, affordable and alternative solution to energy, especially electricity generation and efficient energy utilization in all sectors. Therefore, ERC continues to generate knowledge through R&D solutions for the research community, in the form of graduate research thesis, IF publications, and testing lab development. Moreover, ERC continues

to provide consultative advice to the local industry and HEIs. ERC has contributed to develop national SDG 7 policy to translate the universal SDGs into national goals and targets for effective domestic implementation. ERC has developed a Comprehensive Campus Energy Plan to 100% clean and green energy, which focuses on renewable energy production, conservation measures, and cost savings, followed by promoting sustainability and climate change mitigation through projects that would reduce or curb greenhouse gas. On the same lines, as in previous years, in 2022, ERC signed MoU's with industries such as, EPTeck from Faisalabad, on the national scale, and on the international front, ERC played a pivotal role in an international CUI MoU with UJFJ, Brazil, to collaborate with National Institute of Science and Technology in Electric Energy – INNERGE. INNERGE is a research institute formed by researchers from UJFJ, UNIFEI, UFRJ, UFF, UFSJ and UFABC, in Brazil. The institute operates in the area of Electric Energy through the development of scientific and technological research with international quality standards. ERC strives to play its role in the enhancement of academic activities related to energy and has contributed in preparing feasibility reports, and proposals for various academic programs, including BS & MS Energy Systems Engineering, Postgraduate Diplomas, workshops, short courses and trainings. With the global challenge of Climate Change, reducing Carbon footprint and pledge to limit global warming to 1.5° C by nations in COP27, the role of research Centres such ERC has become significant, and ERC aims to strive towards such goals in coming years through R&D

The centre will serve as a catalyst for innovation in integrated energy technologies through collaborative and interdisciplinary research. Its objective is to provide research oriented, efficient and eco-friendly solutions and professional services, related to energy issues, for socio-economic growth in the national as well as global perspective. ERC's mission is to enable capacity building of future scientific leaders, managers and engineers in the energy sector through continuing professional development activities.

CUI Lahore is making valuable contributions to the field of clean energy through education and training. By organizing technical courses, webinars, and seminars, they can help bridge the knowledge gap and foster a greater understanding of renewable energy

technologies. This approach not only empowers current students but also engages working professionals, promoting a culture of continuous learning and innovation in the energy sector.

Such initiatives can significantly raise awareness about clean energy solutions, encourage sustainable practices, and potentially inspire new projects and collaborations in the community. ERC also conducted a short course. The detailed is given below: -

Energy Research Centre (ERC)
CUI Lahore Campus

Offers online short course (0.5 CPD Points) on

SOLAR PV SYSTEM DESIGN, INTEGRATION AND BUSINESS

WHY TO ATTEND THIS COURSE

Solar PV System is the fastest growing energy market in the world. This seminar will develop a deep understanding of PV system. It covers all theoretical and practical aspects of Solar PV system which are required by an engineer to install its hardware. Secondly this training will include the most used software for PV system design i.e. Helioscope. This software is developed by FDSOLM labs that includes all the features of PVSyst and adds the basic design functionality of AutoCad and SketchUp, allowing solar design engineers to do a complete design with one package.

CONTENTS

- Basics of solar PV
- Practical Implementation requirements.
- Types of inverters, panels and switch gears available in the market.
- PV system design requirements for standalone, hybrid and grid-tie system.
- Creating Preliminary project in Helioscope.
- Designing with multiple field segment, obstruction and shading analysis.

WHO SHOULD ATTEND

- Research Students
- Public and private sector solar power industry managers & officers.
- Design Engineers

REGISTER NOW

<http://bit.ly/ercpcpd2>

FEE SUBMISSION

Account Title HBL CIT: CPD Fund
Account Number 2305-70000826-03
Fee 500 PKR (UC Students)
1000 (Professionals)



Energy Research Centre (ERC), CUI Lahore

Offers short course (0.5 CPD Points) on

Modern Power Systems and Role of Renewable Energy

Why to attend this course

This Course introduces the Series of CPD Short Courses on Renewable Energy Technologies. The course will provide insight into new and revolutionized power systems with the integration of renewables and discuss the pros & cons of Renewable Energy integration within the grid. Performance of conventional and modernized power systems will be evaluated. Climate Change Impacts on Modern Power Systems will also be highlighted.

Contents

- Renewable power generation and clean energy technologies
- Distributed energy resources and storage
- Modern power system operation and planning
- Power system protection and automation in energy management systems
- Transmission technologies in modern power systems
- Modern power grid devices, sensors and wireless technologies
- Load management and customer participation

Who should attend

- Aspiring new entrants & professionals in the field of Renewable Energy Technologies
- Graduate Students interested in R&D work relevant to Modern Power Systems & Renewables
- Industry professionals interested in integrating renewables in their Industrial Power Systems.

Register Now

<http://bit.ly/ercpcpd2>

Fee Submission

Account Title HBL CIT: CPD Fund
Account Number 2305-70000826-03
Fee (PKR) 1000 (Professionals)
500 (CUI UC Students)



Energy Research Centre (ERC)
CUI Lahore Campus

Offers short course (0.5 CPD Points) on

WIND ENERGY AND WIND TURBINES

WHY TO ATTEND THIS COURSE

- To learn about a growing industry
- To explore career opportunities
- To understand the economic benefits of wind energy
- To contribute to a sustainable future
- Wind energy is a key component of the transition to a more sustainable energy future, and attending a short course on wind energy and wind turbines can help participants better understand how they can contribute to this important goal

CONTENTS

- Introduction to Wind Energy: Wind Energy Resource
- Wind Turbine Technology
- Wind Turbine Design
- Wind Turbine Materials
- Wind Turbine Installation and Operation
- Wind Energy Policies and Regulations
- Wind Energy and the Environment

WHO SHOULD ATTEND

- Aspiring new entrants & professionals in the field of Renewable Energy Technologies
- Graduate Students interested in R&D work relevant to Wind Power Systems & Renewables
- Industry professionals interested in updating their knowledge on wind turbines

REGISTER NOW

<http://bit.ly/ercpcpd2>

FEE SUBMISSION

Account Title HBL CIT: CPD Fund
Account Number 2305-70000826-03
Fee 500 PKR (Students)
1000 (Professionals)



PUBLICATIONS

Publications Title	First Author	Publisher	Impact Factor	Weblink
Robust Data Driven Analysis for Electricity Theft Attack-Resilient Power Grid	Inam Ullah Khan Nadeem Javaid C. James Taylor	IEEE Transactions on Power Systems	10	https://ieeexplore.ieee.org/document/9743316
Optimal retrofitting of MCH-Toluene dehydrogenation system: Energy and technoeconomic analysis	Muhammad Haris Hamayun, Faisal Ahmed, Murid Hussain	Energy Conversion and Management	10.4	https://www.sciencedirect.com/science/article/abs/pii/S0196890423003953
Dual-Atomic-Site-Integrated photocatalysts for green energy synthesis	Palagiri Bhavani D. Praveen Kumar Jong Suk Yoo	Elsevier	15.1	https://www.sciencedirect.com/science/article/pii/S1385894723021605
Advances in synthesis of TiO2 nanoparticles and their application to biodiesel production: A review	Obaid Ali Qamar Farrukh Jamil Murid Hussain	Elsevier	15.1	https://www.sciencedirect.com/science/article/pii/S1385894723004655
Feasibility-to-applications of value-added products from biomass: Current trends, challenges, and prospects	Obaid Ali Qamar Farrukh Jamil Murid Hussain	Elsevier	15.1	https://www.sciencedirect.com/science/article/pii/S1385894722057205
Recent advances in wide solar spectrum active W18O49-based photocatalysts for energy and environmental applications	Palagiri Bhavani D. Praveen Kumar Murid Hussain	Taylor & Francis Online	10.9	https://www.tandfonline.com/doi/full/10.1080/01614940.2022.2038472
Cellulose-based adsorbent materials for water remediation: Harnessing their potential in heavy metals and dyes removal	Awais Ali Aslam Sadaf Ul Hassan, Muhammad Haris Saeed	Elsevier	11.1	https://www.sciencedirect.com/science/article/pii/S0959652623027130
A Physically Based Air Proportioning Methodology for Optimized Combustion in Gas-Fired Boilers Considering Both Heat Release and NOx Emissions	Guolin Xiao Xiaori Gao Wei Lu	Elsevier	11.2	https://doi.org/10.1016/j.apenergy.2023.121800

Total Publications: 62 Only High impact Factor publications are highlighted here

In 2023 there were many research projects initiated and completed in SDG 7 two of them are worth mentioning here, **“Design and Analysis of Dual Stator Generator for wind energy Conversion System”** and **“Design and fabrication of Generator for counter rotating wind turbine application”**, having the worth of **4.58 million PKR**



DECENT WORK AND ECONOMIC GROWTH



Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all.

Goal 8 focuses on promoting inclusive and sustainable economic growth, emphasizing the importance of full and productive employment and decent work for all, particularly for children. Target 8.7 aims to eliminate the worst forms of child labour, including child soldiers, and to end all child labour by 2025.

Currently, it is estimated that 152 million children are engaged in child labour, with almost half, 72 million, working in hazardous child labour. The last two decades have seen a decline in child labour by 94 million. However, the COVID-19 pandemic now threatens to slow or even reverse the progress made and increases the risk of more children joining hazardous labour. The Secretary General's report on children and armed conflict continues to confirm that children are being recruited in their thousands, by state and non-state actors, to work as soldiers or other exploitative purposes in armed conflicts around the world. During the first 15 years that the report has been produced, more than 75,000 children were documented as being subject to this worst form of child labour.

Today's global youth unemployment rate is 14 percent three times higher than the adult rate. Without urgent investment in education and skills training, the rapidly growing population of young people, that is expected to reach nearly 2 billion by 2030, will be largely unprepared for the workforce. Work is needed to create more safe and secure opportunities for young people and to address labour market inequalities.

Youth unemployment stands at 14%, significantly higher than the adult rate, and without urgent investment in education and skills training, the burgeoning youth population projected to reach nearly 2 billion by 2030 will face significant challenges in entering the workforce. Addressing these issues is crucial for creating safe and secure opportunities for young people and tackling labour market inequalities.

Strategic Partnerships - Industry Academia Linkages

On February 16, 2023, a senior-level delegation meeting was held between COMSATS University Islamabad (CUI) and the National Aerospace Science and Technology Park (NASTP) in Rawalpindi, facilitated by the Career Development Cell (CDC) at CUI. The meeting aimed to explore opportunities for enhancing Industry-Academia linkage and to create a collaborative network of academicians to address industrial challenges and strengthen research activities.

During the discussions, various collaboration modes were considered, including CUI offering consultancy services to develop scientific procedures and processes aimed at increasing productivity. Additionally, it was proposed that an Industrial Chair for NASTP would be established at CUI, further solidifying the partnership and enhancing research capabilities.



COMSATS Projects and Career Expo Fall 2023 - 21st December 2023 at EE Lawn COMSATS University Islamabad.

Under the auspices of the esteemed Rector, Dr. Sajid Qamar, today, on December 21, 2023, Dr. Sohail Asghar, the In charge of Islamabad Campus, accompanied by the Heads of Departments, toured each stall, fostering a positive exchange of energy.



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 episodes of the competition, featuring 15 teams that passionately competed and presented their inventive concepts.



A One - Day Career Counselling Workshop - The Launch Pad

To prepare and equip the final year students with essential skills to enter professional lives after graduation. Many 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.



Career Opportunities Open for All at CUI Wah 2023

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 runners-up of final-year projects.



PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Moral exclusion in hospitality: testing a moderated mediation model of the relationship between perceived overqualification and knowledge-hiding behavior	Imran Shafique Masood Nawaz Kalyar Bashir Ahmad and Agata Pierscieniak	Emerald	11.1	https://www.emerald.com/insight/content/doi/10.1108/IJCHM-01-2022-0067/full/html
“Articulating Cognizance About What to Hide What not”: Insights into Why and When Ethical Leadership Regulates Employee Knowledge-Hiding Behaviors	Moazzam Ali Muhammad Usman Muhammad Aamir Shafique Khan, Imran Shafique and Farooq Mughal	Springer	6.1	https://doi.org/10.1007/s10551-023-05426-9
Can HR managers as ethical leaders cure the menace of precarious work? Important roles of sustainable HRM and HR manager political skill	Majid Khan Muhammad Usman Imran Shafique, Chidiebere Ogbonnaya, and Hamid Roodbari	Taylor and Francis Online	5.6	https://doi.org/10.1080/09585192.2023.2241821
“Spillover effects of crash and jump events: evidence from Chinese market”	Usman, M. Akhter, W. Haque, A.	Emerald	8.1	https://www.emerald.com/insight/content/doi/10.1108/CFRI-07-2022-0126/full/html

Total Publications:15, Only high impact factor Publications are mentioned here

In SDG 8 there were different projects during 2023, among them **“IoT-Equipped and AI-enabled WSN nodes for precision agriculture”** is worth mentioning which has worth of **PKR 0.15 million**





INDUSTRY, INNOVATION AND INFRASTRUCTURE



Sustainable Development Goal 9 (SDG 9) aims to build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation. This goal is essential for driving economic growth, generating job opportunities, and ensuring environmental sustainability.

By investing in resilient infrastructure, countries can enhance their capacity to withstand economic and environmental challenges. Sustainable industrialization supports the development of industries that are environmentally friendly and inclusive, creating pathways for equitable growth. Additionally, fostering innovation is critical for developing new technologies and solutions that address societal needs and challenges.

Overall, achieving SDG 9 is vital for creating a sustainable future that benefits all sectors of society while protecting the planet.

Investment in infrastructure and innovation is vital for driving economic growth and development, especially as over half of the global population now resides in urban areas. The increasing need for mass transport and renewable energy solutions highlights the importance of adapting to these changes. Additionally, the emergence of new industries and advancements in information and communication technologies play a critical role in this transformation.

Technological progress is essential for addressing both economic and environmental challenges. It can create new job opportunities and enhance energy efficiency. Promoting sustainable industries and investing in scientific research and innovation are key strategies for facilitating sustainable development.

However, more than 4 billion people still lack Internet access, with 90 percent residing in developing countries. Bridging this digital divide is crucial for ensuring equal access to information and knowledge, fostering innovation, and supporting entrepreneurship.

Seminar On Importance of Engineering Dynamics in Industries

The Department of Mechanical Engineering arranged a Seminar on "Importance of Engineering Dynamics and its application in practical life and in industries" on January 5, 2023, under the category of department specific skills. Engr. Touqeer Iqbal from the Pakistan Ordnance Factories was the resource person of the seminar.



The seminar provided comprehensive knowledge regarding engineering dynamics and its application in industries. The resource person elaborated the targets of industries in contemporary epoch and the need for fresh engineers to develop skills to succeed in the industry.

This seminar was arranged for the students for BS (ME) third semester. DME faculty and students thanked Engr. Touqeer Iqbal for such an interactive session. Dr. Atta Ur Rehman Chairperson/Head, Department of Mechanical Engineering presented a souvenir to the resource person. The resource person also exchanged POFs Souvenir to the Head of department on behalf of Pakistan Ordnance Factories (POF).

Industrial Exposure

During the semester students from different departments visited different industrial places to integrate theoretical

knowledge into practical. The practical knowledge teaches students to put theory into practice to get their selves familiar with industry.



Industrial Visit to Gadoon Textile Mill KPK



Industrial Visit – Silver Lake Foods LIMITED



Industrial Visit at National Institute of Electronics



Industrial Visit ECE Students to High Voltage and Short Circuit Lab



A Field Trip to Sangjani Water Treatment Plant



Inauguration of New Academic Block –1

The Honourable 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.

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



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



Survey Camp, Civil Engineering Department

PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Proactive Caching in D2D Assisted Multitier Cellular Network	Sohail Zia Muhammad Azhar Bumshik Lee	Intelligent Systems with Applications	9.29	https://www.sciencedirect.com/science/article/pii/S2667305323000194
Quasi-Optimization of Resource Allocation and Positioning for Solar-Powered UAV	Waqar Amin Fawad Hussain Sheraz Anjum	Journal of Network and Computer Applications	8.7	https://doi.org/10.1016/j.jnca.2023.103729
Recognition of printed Urdu script in Nastaleeq font by using CNN-BiGRU-GRU Based Encoder-Decoder Framework	Mian Ahmad Jan	IEEE	9.551	NULL
Reducing computational complexity in fingerprint matching	Maria Kanwal Rao Arsalan Khushnood Fazal Adnan	Elsevier	10.5	https://doi.org/10.1016/j.cemconcomp.2023.104937
Reduction of out of band radiation in non-contiguous ofdm based cognitive radio system using heuristic techniques	Maria Kanwal Rao Arsalan Khushnood Abdul Ghafar Wattoo	Elsevier	7.144	https://doi.org/10.1016/j.jobbe.2023.105930
Redundant-Signed-Digit-Based High Speed Elliptic Curve Cryptographic Processor	Muhammad Khubaib Akhtar Maria Kanwal Rao Arsalan Khushnood	Elsevier	7.144	https://doi.org/10.1016/j.jobbe.2023.106229
Shallow vessel segmentation network for automatic retinal vessel segmentation	Ali Ranjha	NULL	7.9	https://ieeexplore.ieee.org/document/10002943

Total Publications:92, only high Impact Factor publications are mentioned here.

In SDG 9 there were projects having worth of **8.11 million PKR** during 2023, among them the project titled “development of 2-deoxy - D-ribose releasing tube gels- optimization of preparation and sterilization protocols” **“Cohort: a32-bit configurable digital signal processor for industrial control applications”** are worth mentioning.





Goal 10 aims to reduce inequality both within and among countries, recognizing that disparities often begin with the circumstances of one's birth, including parental background and geographic location. Such social and economic inequalities can severely limit individuals' opportunities to realize their rights and reach their full potential.

Discrimination based on age, gender, ethnicity, disability, sexual orientation, migratory status, and other factors further exacerbates these inequalities, often in subtle and pervasive ways. These patterns of inequality tend to perpetuate across generations, making it crucial to address them early on.

To combat intergenerational poverty and inequality, early interventions and investments in all children, particularly the poorest and most marginalized, are essential. Achieving Goal 10 and the broader Sustainable Development Goals requires a focused strategy to prioritize those who are furthest behind, ensuring that everyone can thrive.

On the economic front, the COVID-19 pandemic has significantly increased global unemployment and dramatically slashed workers' incomes.

COVID-19 also puts at risk the limited progress that has been made on gender equality and women's rights over the past decades. Across every sphere, from health to the economy, security to social protection, the impacts of COVID-19 are exacerbated for women and girls simply by virtue of their sex.



Inequalities are also deepening for vulnerable populations in countries with weaker health systems and those facing existing humanitarian crises. Refugees and migrants, as well as indigenous peoples, older persons, people with

disabilities and children are particularly at risk of being left behind. And hate speech targeting vulnerable groups is rising.

COMSATS University Islamabad upholds a uniform and non-discriminatory admission policy as outlined in its Act of 2018. Clause 5 emphasizes that the university is open to all individuals, regardless of gender, religion, race, creed, class, colour, or domicile. This ensures that no one is denied access to the university's privileges based on these criteria.

To support this commitment, COMSATS utilizes various systems to track applications from under-represented groups. Platforms like the CU online system and the international admissions portal facilitate effective management and tracking of admissions, ensuring that these groups are given due consideration in the application process.

The university also adheres to a merit-based recruitment policy for students, staff, and faculty, reinforcing its dedication to inclusivity and fairness in its admissions practices.

WMS-CUI Joint Seminar on "Threat of Cybercrimes: Growing Vulnerabilities of Societies"

In a dazzling symphony of intellect and insight, the symposium on the "Threat of Cybercrimes: Growing Vulnerabilities of Societies" took centre stage at the vibrant COMSATS University Islamabad. This tech spectacle, orchestrated by the FDA in collaboration with the Federal Ombudsman, was more than an event – it was a voyage into the labyrinth of technology-induced challenges and opportunities. The event was held on November 30, 2023, at EE Auditorium Hall, COMSATS University Islamabad.

Discussion Highlights: The discussion unfolded like a thrilling plot: Madam Fauzia, the protagonist, championed children's rights, calling for media seminars as beacons of awareness. Dr. Qasim, the vigilant guardian, warned of the app permissions abyss, advocating for education on safe mobile usage. Ms. Asma, the cyber sleuth, cautioned against the alluring unknown, urging

resistance to the siren call of shady links. Dr. Shabana, the wise sage, declared education as the ultimate weapon against cybercrime, with academia as its wielder. Mr. Amar Jaffri, the visionary, extolled the importance of AI and language mastery, a potent arsenal against the digital unknown. Mr. Farooq, the gatekeeper, revealed PTA's shield against unethical URLs, as he sounded the alarm on rising child abuse trends. Conclusion: In the final crescendo, the symposium concluded with a collective vow to combat cyber threats. The insights gained were not mere notes; they were the anthem of a resilient Pakistan navigating the digital storm. The event proved that in the face of evolving challenges, collaboration and awareness will be the guiding stars in our digital constellation. The symposium wasn't just an event; it was an ode to empowerment in the digital age.



Basic Social Media Tools/Beyond the #Hashtag June 8, 2023

Faculty Development Academy in collaboration with Registrar office organized a 1 – day training on 'Basic Social Media Tools/Beyond the #Hashtag' on June 8, 2023. The workshop was arranged in SSBC and there were 31 participants from different departments of CUI Islamabad. This workshop was designed to cover page management and content management of Facebook and Instagram. Dr. Omer and Ms. Hania from Management Sciences department were the resource persons for this training. The program started at 1100 AM and lasted for 02 hours. This workshop was the first of its kind which was arranged to bring all the members on one platform so that the image of CUI should be reflected in a concordant and unanimous way. Dr. Omer started the workshop by briefly

introducing himself and his co-trainer, Ms. Hania. Firstly, they both clarified the idea of having this topic for training. The basic purpose of this workshop was to bring harmony in the marketing pages and campaigns of all departments so that they augment each other via web pages of Islamabad campus and boost the viewership. Ms Hania elaborated about the communication loopholes which are lying in each of our departments. The basic idea is that if the communication with our clients is weak, it will cause adverse affects on our admissions and thus leading to a drastic decline in enrolments.

The trainer then highlighted the significance of 'strategy' for basic social media tools. Currently most of the departments are running their own marketing pages, but there is no uniformity or consistency. Moreover, there are many pages designed with the same names e.g. CUI and the searcher are not sure about the authenticity of the pages. This problem must be sorted out in order to enhance the profile and efficiency of CUI campuses. Another issue which we are facing is that the departments have made their official pages with personal accounts. Once a member leaves the organization, that page also stops working.



Sports And Wellness Facilities

Sports are the vital part of any educational process. The campus has Cricket, Football, badminton, and basketball grounds for both male and female students. Also, the gym and indoor game centres are open to students for wellness, recreational and sports activities. The indoor gym is equipped with state-of-the-art exercise machines and highly professional instructors, facilitating all who come seeking physical and mental fitness. Among all the CUI campuses only Islamabad campus has the cricket ground of international standard and Islamabad campus has the Honor to organize 1st Inter campuses T-20 Cricket tournament in March 2012. In 2013

Islamabad campus extended its outdoor sports facilities by establishing Football ground, multipurpose court for Volleyball and Tennis.



COMSATS University Islamabad has a Counselling & Wellness Centre (CWC) that offers consultative services for psychological and emotional issues faced by students and staff. The CWC provides essential support and guidance to help individuals address their mental health concerns.

In addition, the university has a Career Development Centre (CDC) that provides impartial and confidential advice to all

visitors, including those with disabilities. The CDC aims to assist students and alumni in making informed career decisions by offering a range of resources and services to support their career development.

These initiatives reflect the university's commitment to the well-being and professional growth of its community member.

Quality teaching methodologies are becoming increasingly vital in higher education, particularly in Pakistan, where the effectiveness of teaching directly impacts students' ability to apply their knowledge to real-world challenges. Passionate teachers who engage in continuous learning contribute significantly to this process.

Recognizing the importance of high-quality education, COMSATS University Islamabad established the Faculty Development Program (FDP) in 2004, which evolved into the Faculty Development Academy (FDA) in 2011. The FDA aims to promote quality teaching methodologies and empower educators to become catalysts for societal change.

The Academy provides both pre-service and in-service training for faculty and their support staff. It organizes training sessions, workshops, and seminars led by experts tailored to the specific needs of participants. These initiatives create an engaging learning environment that enhances morale and fosters a desire for ongoing education.

The FDA has received positive feedback regarding the quality of its training, course content, and logistics, leading to requests for repeated sessions. Operating under the motto "Enabling Decisions for Tomorrow," the FDA continues to play a crucial role in enhancing the skills and knowledge of educational professionals at COMSATS and beyond.

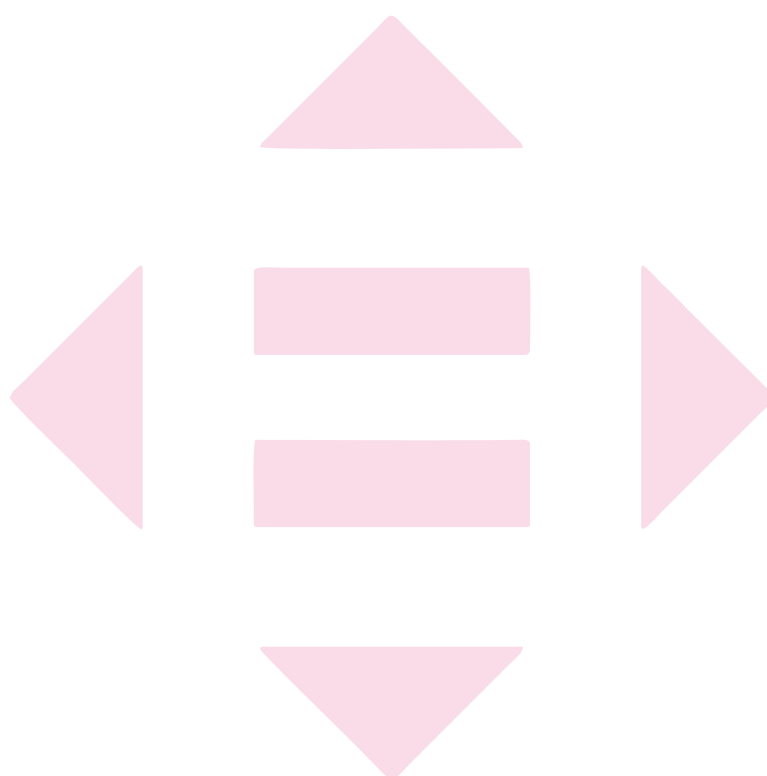


PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
A Study of Disempowerment of Women in Afsana Pichhal Pairi by Afzal Ahsan Randhawa	Muhammad Asif Javed Arshad Ali Ayyaz Mahmood	Journal of Languages, Culture and Civilization	0	https://jlcc.spcrd.org/index.php/jlcc/article/view/184
Do managers' negotiation styles make employees' relational justice-emotional experiences links sporadic?	Muhammad Zahid Iqbal Ayesha Shakoor Malik Ikramullah	Emerald	0	NULL
Gender-based adjustment problems of divorcees in Hazara Division, Pakistan	Kanwal Rubab, Arif Alam Noor Elahi	PLOS ONE	3.4	https://journals.plos.org/plosone/

Total Publications:3

Comsats collaborated with National Vocational & Technical Training Commission (NAVTTTC), NAVTTTC's strategic initiatives are reshaping the TVET landscape, fostering skill development, and addressing systemic TVET challenges in Pakistan. Last year, NAVTTTC's TVET-related initiatives and the Prime Minister's Youth Skill Development Program registered substantial progress, creating a robust, inclusive, and globally competitive workforce for sustainable national development. The significant achievements of NAVTTTC during FY 2022-23 include: 56,000 youth are currently enrolled under the Prime Minister's Youth Skill Development Program (PMYSDP), a **Rs 4.9 billion** program for skill training in emerging 39 IT, 53 Industrial, and 34 hardcore skills. The program targets domestic and international job markets, especially those of the Kingdom of Saudi Arabia, UAE, Gulf countries, EU, and far eastern states like Japan and Korea.





SDG-11 SUSTAINABLE CITIES AND COMMUNITIES.



The UNESCO Chair in Knowledge Systems for Integrated Water Resources Management (IWRM), established in 2014 at COMSATS Institute of Information Technology (CIIT), now COMSATS University Islamabad CUI Wah, Pakistan, represents a significant achievement in the field of water resources management both for the institution and for the broader academic and research community in Pakistan.

The purpose of the Chair is to advance the understanding and application of integrated systems in managing water resources. This includes a comprehensive approach that involves research, training, documentation, and the sharing of knowledge on water resources. It facilitates international collaboration, particularly among researchers and academic staff from Pakistan and institutions around the world. This not only enriches the academic environment but also helps improve water management strategies in Pakistan, which is crucial given the country's water scarcity issues and agricultural reliance on irrigation.

The establishment of the UNESCO Chair marks CUI-Wah as a key player in the global conversation on sustainable water management and positions the institution as a leader in research and education in this critical field. By being

part of this UNESCO initiative, CUI is aligned with global best practices and has access to cutting-edge research and international collaboration, which can significantly enhance the quality of education and research in water resources management.

This milestone also highlights Pakistan's growing commitment to addressing water-related challenges through education, research, and international cooperation. The IWRM approach promoted by the UNESCO Chair aims to create sustainable water management strategies that are inclusive, resilient, and adaptable to the country's diverse environmental and socio-economic needs.

In essence, the UNESCO Chair at CUI is helping foster a global network of expertise that will benefit not only Pakistan but also contribute to global efforts in managing water resources sustainably.

Workshop on the Hydrological Modelling Application of SWAT

The UNESCO Chair on Knowledge Systems for (IWRM) organized a one-day Workshop on the Hydrological Modelling Application of SWAT on February 28, 2023 in collaboration with the Department of Civil Engineering. The resource person, member IWRM / Lecturer, Engr. Summera

Fahmi from the Department of Civil Engineering shared her knowledge and expertise on Hydrological modelling techniques to identify the watersheds, Soil, and Water Assessment Model (SWAT) of the Gilgat, Pakistan to study, water quality, sediment and effects of climate change. The researchers from the CUI Abbottabad, PCRWR and Workshop on Hydrological Modelling Application of SWAT Clean Water and Sanitation Ensure Availability and Sustainable Management of Water and Sanitation for graduate/ undergraduate students from CU Wah Campus attended the workshop. The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid, T.I., in his closing remarks emphasized on the capacity building in the adaptation of improving technologies



Access to clean water, sanitation, and effective waste management in urban settings is essential for sustainable communities.

University/HEI	Source of Drinking Water (Surface Water/ Groundwater)	Type & Specifications of water filtration facility installed	No. of Facilities	Capacity of Filtration Facility (liters/hour)	No. of students being served
COMSATS University Islamabad, Sahiwal Campus	Surface Water	RO Plant	<ul style="list-style-type: none"> ● Pure Water ● Free Water Supply 	500 gallons	3400 plus students



Celebrations of World Water Day - 2023

In recognition of World Water Day an annual United Nations (UN) observation day held on every March 22 arranged a seminar on "Accelerating Change for Water Security in a Changing Climate: Innovative Solutions for Improved Resilience" on March 16, 2023. The aim of the seminar is to build the attention of society on the importance of water security and sustainable management of freshwater resources, and the effects of climate change on our livelihood. This year, the theme of the World Water Day is "Accelerating Change". The speaker Dr Amjad Masood, Senior Scientist, an expert in Hydrology and Climate Change at Basin Scale in Water Resources and Glaciology Section of Global Change Impact Studies Centre (GCISC), Islamabad, Pakistan.

He highlighted the issues faced by Pakistan due to climate change. The Chief Guest of the seminar was the Vice Chancellor of the University of Wah, Prof. Dr. Jameel Un Nabi. In his remarks he appreciated the importance of water as a natural resource and it



uses in our daily lives. He encouraged the youth to take an initiative to save water and avoid its wastage in daily usage for the betterment of the community. The closing remarks presented by the UNESCO Chair on Knowledge Systems for IVRM/ Director Campus. He discussed the future need of wastewater recycling that freshwater makes up only 2% of the total water on Earth, which humans use every day.



Energy-efficient urban infrastructure and access to clean energy contribute to sustainable cities

This relates to building resilient infrastructure and promoting sustainable industrialization, supporting SDG 11's goal of creating resilient and inclusive urban environments.

University-Industry Linkages:

Office of ORIC Focal Person CUI Sahiwal signed a MoU with the Pak Elevators (SME -Pvt.) Ltd to strengthen the industry academia linkage on 14 July 2023 (MoU attached). Job and paid Internship placement of CUI Sahiwal graduates is a key feature of the MoU in addition to Research Collaboration. Moreover, Pak Elevators has placed one job and two paid internships for the students of ECE CUI Sahiwal Campus.



purpose of the training was to educate the participants on the effective preparation of e-course folders, which can be used for online teaching.

Training Objectives: The training session aimed to provide the following objectives:

- Understand the importance of e-course folders for online teaching.
- Learn how to organize and structure e-course folders.
- Develop skills to create effective course content, including multimedia materials.
- Understand the importance of accessibility and inclusivity in e-course folders.
- Learn how to upload and manage e-course folders on learning management systems

The participants gained valuable knowledge and skills on how to create effective and accessible e-course folders.



Trainings/Workshops

The details of seminars & workshops including the CPD based activities are as follows:

Training on Preparation of E-Course Folders by Mr. Syed Khawar Hussain

The Department of Mechanical Engineering conducted a training session on the preparation of E-course folders. The session was conducted by Syed Khawar Hussain Shah, an experienced faculty member of the department. The

Seminar on Fire Safety of Lithium Ion Batteries

The Department of Mechanical Engineering conducted a Seminar on "Fire Safety of Lithium

Ion Batteries". Dr. Ghulam Abbas Gohar was the speaker guest for the said seminar.



Industrial Visit – Sitara Chemicals Faisalabad

The Department of Mechanical Engineering arranged an Industrial visit of BSME Students to "Sitara Chemicals Faisalabad". Dr. Muhammad Abid and Mr. Khawar Hussain accompany the students



The ground breaking ceremony for the construction of New Academic Block-1 (125,000 sqft) was held on April 12, 2023 at CUI Wah Campus. The Honorable Rector CUI, Prof. Dr. T. Afzal inaugurated the construction works by lifting the curtain from the plaque. On the occasion Director Campus, Prof. Dr. Muhammad Abid, T.I., members CUI Syndicate, Department / Section Heads, Faculty Members, representatives from the NESPAK and the construction company were present. The ground breaking ceremony for the construction of Academic Block-I was an important milestone for the Campus's growth. It was a momentous occasion that symbolized the University's dedication to academic excellence and a commitment to the betterment of society.



PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Design and assessment of energy management strategy on rail coaches using solar PV and battery storage to reduce diesel fuel consumption	Abdullah Tariq Sipra Fawad Azeem	Elsevier	9	NULL
Design of hybrid power system for COMSATS University Islamabad using homer pro software	Amir Rashid Muhammad Ehsan Javed Rashid	International Journal of Engineering, Science and Technology	7.155	NULL
Monsoon flood risks in urban areas of Pakistan: A way forward for risk reduction and adaptation planning	Azka Zia	Elsevier	8.7	https://www.sciencedirect.com/science/article/abs/pii/S0301479723004401
Optimal Retrofitting of MCH-Toluene Dehydrogenation system: Energy and Technoeconomic Analysis	Muhammad Anas Maqbool Javed Khan Muhammad Haris Hamayun, Faisal Ahmed*	Elsevier	11.53	https://www.sciencedirect.com/science/article/abs/pii/S0196890423003953
RL-IoT: Reinforcement Learning-based Routing approach for Cognitive Radio-enabled IoT Communications	Muhammad Ibrar Safdar, Tauqeer; Malik, Kaleem; Afzal, Ayesha; Ibrar, Muhammad; wang, lei; Song, Houbing; Shah, Nadir	IEEE Internet of Things Journal	10.238	https://ieeexplore.ieee.org/document/9905718

Total Publications :43, only High Impact Factor Publications are highlighted here.

During 2023 several research projects initiated **One million PKR** earned through these projects, **“Linear Adaptive filter based Multipath Distance Detector Algorithm for GNSS Spoofing Detection”** was initiated by Department of Electrical and Computer Engineering of CUI Wah Campus.



RESPONSIBLE CONSUMPTION AND PRODUCTION

SDG 12, Responsible Consumption and Production, closely links to multiple Sustainable Development Goals (SDGs) due to its focus on sustainable resource management, reducing waste, and promoting efficient production and consumption patterns.



The Dawaa Society, in collaboration with the Department of Pharmacy at CUI Abbottabad Campus, Organized an insightful Breast Cancer Awareness Seminar. For its esteemed faculty members and female students. This significant event was graced by distinguished guest speakers from the oncology team at INOR Hospital.

The primary message to convey to our community is the importance of early detection in identifying any irregularities related to breast health. We emphasize the need for immediate screening if any symptoms deviate from the norm, as early intervention can be a life-saving measure.

This seminar had three key objectives:

1. Early Detection: Recognizing the early signs of breast cancer can potentially save lives.
2. Preventative Measures: Learning about possible preventive actions empowers us to reduce risks.
3. Raising Awareness: Enhancing knowledge about breast cancer and its implications in our society.

We were privileged to have renowned oncologists from INOR Hospital as our keynote speakers for this event. They shared their expertise and insights on these critical topics.

There was an active participation in this seminar.

Seminar on the “Role of geo-sciences in the mining

industry,” which was organized by the Department of Earth Sciences COMSATS University Abbottabad Campus.

Urging the students to learn the skills in addition to formal education, the Director COMSATS University Abbottabad campus, Professor Dr. Muhammad Maroof Shah, on July 13, 2023, stressed the need for bridging the gap between industry and academia through collaborative projects.

The seminar on the “Role of geo-sciences in the mining industry,” which was organized by the Department of Earth Sciences COMSATS University Abbottabad Campus in collaboration with the Society of Exploration Geophysicists, and Earth Explorer Club here.



Professor Dr. Muhammad Maroof Shah stressed that Illegal mining in Pakistan has had severe negative effects. “The country is rich in natural resources, including minerals such as coal, copper, gold, and gemstones. However, illegal mining practices have led to significant environmental degradation and ecological imbalances,” he added. The mining and mineral exploration company's experts said that geo-sciences play a crucial role in the mining industry of Pakistan



They pointed out that key effects of illegal mining on the environment in Pakistan include deforestation, water pollution, soil erosion, air pollution, damage to wildlife and ecosystems, and social impacts. To mitigate the negative effects of illegal mining on the environment in Pakistan, they said, it was crucial to strengthen law enforcement, improve monitoring mechanisms, and promote sustainable mining practices. They recommended strict regulations, effective governance, and public awareness campaigns to combat this issue and ensure the protection of the environment and communities affected by illegal mining.

The Pakistani mining industry, and the workforce in general, should learn from other countries' experiences rather than reinventing the wheel on health and safety.



National Seminar on Innovative Technologies for Soil Management under Changing Climate

The Department of Environmental Sciences at COMSATS University Islamabad, Abbottabad campus, in collaboration with the Soil Sciences Society of Pakistan (SSSP), organized a national seminar on “Innovative Technologies for Soil Management under Changing Climate” on June 15, 2023. The seminar was attended by over a hundred participants, including individuals from academia, the scientific community, and students from various universities such as International Islamic University, BioSciences COMSATS Islamabad, Bahria University, National Agriculture Research Center and WWF Pakistan.

During the welcome speech, Prof. Dr. Zahir Ahmead Zahir the President of SSSP highlighted the importance of the

seminar and presented facts and figures regarding the potential damages to soil quality and agricultural productivity caused by climate change. Following the welcome speech, Prof. Dr. Adnan Ahmad Tahir from the Department of Environmental Sciences at COMSATS delivered a thoughtful presentation on the impacts of climate change on glacier melting and glacier lakes, emphasizing its implications for mountain agriculture and water security.

Dr. Aansa Rukya Saleem from the Department of Earth and Environmental Science at Bahria University enlightened the audience on the use of biological tools for soil stress management, focusing on the potency of microbial ACC-deaminase in regulating plant biomass, ethylene, and isoprene emissions. Dr. Qaiser Hussain from the Institute of Soil and Environmental Sciences at PMAS Arid Agriculture University Rawalpindi presented his research on a new frontier in soil analysis, using soil spectral libraries and artificial intelligence to predict key soil properties.



Creative Seminar on the Evolution and Scope of Animation

A seminar on Creative Seminar on the Evolution and Scope of Animation was organized by Abbottabad Wolf Studios in collaboration with the Coordination Office and the Computer Science Department CUI, Abbottabad Campus was held on 10th June 2023. The event aimed to provide valuable insights into the world of animation and its significance in various industries

The seminar not only enriched participants' knowledge but also created an environment for networking and fostering connections between industry professionals and aspiring animators. Attendees expressed their appreciation for the opportunity to learn from experts in the field and left the seminar inspired and motivated to pursue their passions in animation. We extend our heartfelt gratitude to all the speakers for their valuable insights, the participants for

their active engagement, and the organizers for their meticulous planning and seamless execution of the seminar



Organized a seminar on “World Environment Day – 2023”

Department of Environmental Sciences co-organized a seminar on “World Environment Day – 2023” in collaboration with Water and Sanitation Services Company Abbottabad (WSSCA) to create awareness regarding plastic contribution to environmental pollution. The theme of this year's World Environment Day 2023 was “Beat Plastic Pollution” which was held in the main auditorium of CUI Abbottabad Campus. Prof. Dr. Mohammad Maroof Shah, director COMSATS University Islamabad (CUI) Abbottabad Campus, and Chief Executive Officer (CEO) WSSCA were invited to grace the event. A talk on “Beat Plastic Pollution” was delivered by Dr. Farhan Hafeez. Talking about this very important issue, Dr. Farhan Hafeez briefed the audience on an annual generation of solid waste comprising 18% of plastic waste. He described that Pakistan is adding more than 3.3 million tons of plastic annually that may reach up to 6.12 million tons by 2050 which is very devastating and must be tackled to combat the environmental pollution. Dr. Farhan further enlightened the audience with the ways to reduce and manage plastic pollution. the audience was briefed on the relationship between plastic pollution and climate change. Carbon pollutants are transported and deposited over the snow and glacier



surfaces, turning them into a dark surface that ultimately enhances heat absorption and causes the glacier to melt. Such accelerated melting may cause hazards including glacier retreat, lake formations, and outburst floods. These hazards cause damage to infrastructure, agriculture, human lives, and settlements. Monitoring of such lakes through remote sensing satellite data may help to alert the downstream communities when a potential outburst is predicted.

Mr. Umar Swati from WSSCA highlighted the attitudes, behavior, and responsibilities of society toward the environmental pollution caused by plastic. Prof. Dr. Muhammad Bilal, convener Industry-Academia Liaison Committee, emphasized the importance of linkages of academia and service providers like WSSCA to join hands and develop environmental technology models to showcase low-cost solutions for various environmental issues. Eng. Rehan Yousaf, CEO WSSCA, suggested CUI Abbottabad Campus and selected areas of Abbottabad City be plastic-free places. Prof. Dr. Muhammad Irshad, Chairman – Environmental Sciences, in his closing remarks, thanked the respected delegates for attending the seminar. Prof. Dr. Mohammad Maroof Shah, director CUI, Abbottabad, ensured WSSCA officials his commitment to help and cooperation needed in community services not only in the environment but also for energy optimization and other engineering works being managed by WSSCA. Delegates also visited the biogas and compost facility, being managed by Dr. Iftikhar Zeb of the Biotechnology Dept. Organizers of the program i.e. Prof. Dr. Muhammad Bilal (CUI) and Eng. Wasiq Mansoor (WSSCA) was appreciated for organizing the excellent event. In the end, certificates of appreciation were distributed to the students and faculty while the commemorative shields were to the delegates.



A senior-level delegation meeting was held between COMSATS University

Islamabad, Wah Campus and National Aerospace Science and Technology Park (NASTP), Rawalpindi on February 16, 2023 in the coordination of the Career Development Cell (CDC), CUI Wah Campus to explore the possibilities of promoting the Industry-Academia linkage to establish a cluster of academicians to provide solution of industrial problems and to strengthening research activities. Various modes of collaboration were explored. It was discussed that CUI Wah Campus would provide Consultancy Services to develop procedures, processes, and implementation to ensure increased productivity on a scientific basis and an Industrial Chair of NASTP will be established at CUI Wah Campus.



Strategic Partnerships - Industry Academia Linkages

A senior-level delegation meeting was held between COMSATS University Islamabad, Wah Campus and National Aerospace Science and Technology Park (NASTP), Rawalpindi on February 16, 2023 in the coordination of the Career Development Cell (CDC), CUI Wah Campus to explore the possibilities of promoting the Industry-Academia linkage to establish a cluster of academicians to provide solution of industrial problems and to strengthening research activities. Various modes of collaboration were explored. It was discussed that CUI Wah Campus would provide Consultancy Services to develop procedures, processes, and implementation to ensure increased productivity on a scientific basis and an Industrial Chair of NASTP will be established at CUI Wah Campus.



in-continuation the software Development House (SDH), National Aerospace Science and Technology Park (NASTP) visited CUI Wah Campus on March 10th, 2023 to further strengthen the industry academia linkages.

The Director Campus, Prof. Dr. Muhammad Abid, T.I., along with In-charge Career Development Cell, Dr. Mushtaq Ahmad Bhatti welcomed the team of NASTP comprising the Chief Director Software Development House (SDH)/ Air Cmdr Amir Azim, Wing Cmdr, Amir Raza and Wing Cmdr, Mehmood Ahmad. The team had a meeting with the HoD Computer Science, Dr. Sheraz Anjum, HoD E&CE, Dr. Muhammad Naeem and HoD Mechanical Engineering, Dr. Attah ur Rehman and with a group of active researchers from the department of Computer Science, Electrical and Computer Engineering, Civil Engineering and Mechanical Engineering to discuss the ecosystem of essential elements required to nurture design, research, development and innovation in the field of web securities



1st International Conference about COP27 Climate Change & Food Security

The Director Campus/UNESCO Water Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof Dr. Muhammad Abid, T.I., delivered the keynote address titled "Sedimentation –Threat to Dams and Food Security" in the 1st International Conference about COP27 Climate Change & Food Security on February 15,

2023 organized by the Arid Agriculture University Rawalpindi, Department of Agronomy, Rawalpindi. He highlighted that dam sedimentation becoming a serious threat for the sustainability of irrigation and addressed the problems framed in water management, flood control, and production of energy.

Ocean Connects World

To promote the exploration and protection of the ocean and boost the development of marine engineering, jointly organized by Mechanical and Vehicle Engineering Division of Chinese Academy of Engineering, Science and Technology Committee of China State Shipbuilding Corporation Limited, and jointly organized by Systems Engineering Institute of China State Shipbuilding Corporation Limited, China Ship Research and Development Academy, Pilot National Laboratory for Marine Science and Technology (Qingdao), and Harbin Engineering University, the International Conference on Marine Equipment & Technology and Sustainable Development (ICMETSD), was organized in Beijing, China on March 31 and April 1, 2023.

During the conference, the Presidents' Forum was organized to discuss and exchange views on the cultivation of marine talents and the future development of ocean, innovation and international cooperation on ocean science and technology, and the development trend of cutting-edge marine science and technology, in order to strengthen exchange and cooperation among China and foreign universities in the field of shipbuilding and ocean, comprehensively improve the competency and level of universities in serving the global ocean governance, and provide intellectual and technological support for global ocean governance.

Prof. Dr. Muhammad Abid, T.I., Director CUI Wah Campus delivered his Keynote on —Marine Education and Technology for Sustainable Development in Pakistan. During his talk he mentioned that Pakistan is located along the Arabian Sea and offers great potential for marine-based activities in Education and Technology for shipping, fisheries, aquaculture & tourism. Hence development of sustainable marine equipment and technology can play a significant role in unlocking the potential of Pakistan's marine sector while ensuring its long-term viability. Above mentioned developments can not be ensured to be sustainable without Capacity building in Marine Engineering and Sciences degrees at BS, MS and PhD levels and through Specialized Courses.



PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
How construction and demolition waste management has addressed sustainable development goals: Exploring academic and industrial trends	Ke Zhang Qing Ke Qasim Umer, Fahad Asmi	Elsevier	8.7	https://www.sciencedirect.com/science/article/abs/pii/S0301479723016110?via%3Dihub
Investigating catalytic oxidative desulfurization of model fuel using hollow PW12/TiO2@MgCO3 and performance optimization via box-behnken design	Sadaf Ul Hassan, Hamna Khalid Sidra Shafique Muhammad Asim Farid	Elsevier	8.8	https://www.sciencedirect.com/science/article/pii/S004565352301929X
A novel renewable powered stand-alone electric vehicle parking-lot model	Muhammad Jawad Hira Asghar ehangir Arshad, Abbas Javed, Muhammad Bilal Qureshi, Sahibzada Muhammad Ali, Noman Shabbir, Anton Rassölkin	Elsevier	7.1	https://www.sciencedirect.com/science/article/abs/pii/S2352467722002375
First Identification of Potato Tuber Rot Caused by Penicillium solitum, its Silver Nanoparticles Synthesis, Characterization and Use against Harmful Pathogens	Syed Haseeb Shah, Xiaoliang Shan, Sofia Baig et al	Frontiers Media	5.6	https://www.frontiersin.org/journals/plant-science/articles/10.3389/fpls.2023.1255480/full

Total Publications :23, only high impact factor publications are mentioned here

In 2023 research projects of **10.73 million** worth got approved among them a project titled **“Synthesis of 1,3-Disubstituted Thioureas as Potential pesticides to deal with the Hurdles in Sustainable wheat growth in Pakistan”**, and **“Intelligent service Design Development and Adaptation solution”** are worth mentioning





SDG-13 CLIMATE ACTION



Goal 13 emphasizes the need for immediate action to combat climate change, particularly because it disproportionately affects the most vulnerable populations, including children.

The statistics underscore the severity of the crisis: with children under five bearing a significant portion of climate-related health impacts, it's clear that their futures are at stake. The lasting effects on their development—both physical and cognitive—are deeply concerning, indicating a need for systemic changes in environmental policy and public health initiatives.

To ensure a safer and healthier world for future generations, we must advocate for policies that not only address climate change but also prioritize the rights and well-being of children. Engaging communities, raising awareness, and pushing for sustainable practices can help mitigate these impacts.

The Director Campus/UNESCO Water Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof Dr. Muhammad Abid, T.I., delivered the keynote address titled “Sedimentation –Threat to Dams and Food Security” in the 1st International Conference about COP27 Climate Change & Food Security on February 15, 2023 organized by the Arid Agriculture University Rawalpindi, Department of Agronomy, Rawalpindi. He highlighted that dam sedimentation becoming a serious threat for the sustainability of irrigation and addressed the problems framed in water management, flood control, and production of energy. He emphasized in Investigating the methods of removing sedimentation and the need to mapped storage fed irrigation for the well-being.

The seminar titled “Climate-Induced Drought Patterns in Pakistan: Variability, Trends, and Global Teleconnections” was presented by Dr. Muhammad Latif, Assistant Professor, Department of Meteorology, CUI, Islamabad, on October 25, 2023. The event was jointly organized by Quaid-i-Azam University (QAU), the Chinese Academy of Sciences (CAS), the Higher Education Commission of Pakistan (HEC), the China-Pakistan Joint Research Center on Earth Sciences (CPJRC), and the Pakistan Academy of

Sciences at QAU.

It provided participants with valuable insights into the complex dynamics of droughts and an understanding of how climate change drives drought variability in Pakistan, focusing on the influence of global climate patterns such as El Niño and La Niña. By examining long-term trends and large-scale atmospheric teleconnection patterns, the seminar highlighted the importance of monitoring and predicting drought conditions to enhance climate resilience. This aligns with SDG 13: Climate Action, as it equips participants with the knowledge and tools to assess climate risks, mitigate drought impacts, and support disaster risk reduction efforts. It also emphasized collaborative planning and informed decision-making to strengthen adaptation strategies for climate-induced challenges.



Dr. Muhammad Latif receiving a certificate from Prof. Dr. TANG Qihong, CAS, China.

The seminar titled “South Asian Summer Monsoon and Climate Change Impacts in Pakistan: Insights from 2022” was presented by Dr. Muhammad Latif, Assistant Professor, Department of Meteorology, CUI, Islamabad, on June 9, 2023. The seminar was organized by the Department of Meteorology, CUI, Islamabad Campus.

It significantly contributes to this goal through its emphasis on environmental education. By raising awareness of the South Asian summer monsoon's behaviour and its changing patterns due to climate change, the seminar serves as an important educational effort. It informs local communities and policymakers about the associated risks and impacts, thereby facilitating the development of effective adaptation strategies. Furthermore, if the university

collaborates with NGOs and local government agencies (e.g., PMD) focused on climate adaptation and disaster management, the seminar can act as a platform for sharing valuable findings. This integration of scientific insights into community-level climate action programs enhances collaborative efforts, ultimately promoting resilience and sustainability in the face of climate challenges in Pakistan. While the seminar does not directly link to SDG 13.2.1: Low-carbon energy tracking, it emphasizes the need for climate-resilient energy systems in Pakistan.



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. 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 and organizing it successfully to strengthen the scientific collaboration between the British Council, Higher Education Institutions of Pakistan and UK.



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.



The Tree Plantation Drive 2023 was inaugurated at COMSATS University Islamabad (CUI), by the Director Campus, Prof. Dr. Muhammad Abid, T.I., on June 27, 2023. The Director Campus, Head of Departments/Sections, Faculty members, Officers, and Staff members participated and planted Silver Oaks trees beside the Football Ground walls. The aim of the plantation drive was to keep the Campus Green & Clean, reduce air pollution, mitigate climate change, and fight against global warming.



The seminar titled "Research and Career Opportunities in Meteorology and Climate Science in Pakistan" was presented by Dr. Muhammad Latif, Assistant Professor, Department of Meteorology, CUI, Islamabad, on January 6, 2023. The seminar was organized by the Department of Meteorology, CUI, Islamabad Campus.

It provides learners with essential insights into meteorology and climate science in Pakistan. By focusing on research and career opportunities, the seminar directly supports promoting higher education in climate-related disciplines and enhancing student's skills in this critical area. Furthermore, it contributes to SDG 13 by promoting an understanding of climate change impacts and adaptation strategies among participants. The seminar also encourages collaboration between educational institutions and local NGOs, facilitating the integration of scientific knowledge into community-level initiatives. Overall, this event serves as a

vital platform for empowering future professionals to tackle climate challenges and pursue sustainable solutions in Pakistan.



A training workshop titled "Geospatial Techniques to Understand the Urban Architecture and Planning" was conducted by Dr. Muhammad Rizwan Mughal, Assistant Professor, Department of Meteorology, CUI, Islamabad, on December 27, 2023. The workshop was organized by the Department of Meteorology, CUI, Islamabad Campus. It encompassed both theoretical instruction and hands-on training exercises, focusing on building capacity to foster understanding of the latest tools and methods for analyzing and visualizing urban data using geospatial technologies. Moreover, the workshop highlighted how geospatial technology can support sustainable and resilient urban development by addressing complex challenges such as land use, transportation, and land control.



The International Water Management Institute (IWMI) established a “Water, Environment & Agriculture Societies’ Consortium” and held its second meeting on March 14, 2023. The meeting brought together 21 representatives from 11 universities across Punjab province and the federal capital. Dr. Umair Bin Nisar, Assistant Professor in the Department of Meteorology at COMSATS University Islamabad, represented CUI, starting the session with a brief introduction to the university. He delivered a presentation outlining ongoing initiatives and provided a comprehensive overview of key focus areas.

Rel This meeting addresses SDG 13: Climate Action .The projects discussed at the IWMI meeting illustrate the critical role universities can play in advancing multiple SDGs. The biogas project aligns with SDG 13 (Climate Action) by reducing greenhouse gas emissions and promoting renewable energy. Additionally, the groundwater exploration projects in the twin cities and mountainous regions contribute to SDG 6 (Clean Water and Sanitation) by ensuring sustainable water management and protecting freshwater resources. These initiatives also support SDG 15 (Life on Land) by addressing land degradation and desertification, which are closely linked to water scarcity. Through collaboration and knowledge sharing, universities can significantly impact the achievement of these interconnected SDGs and promote sustainable development efforts.



Dr. Muhammad Imran Shahzad, Head/Chairman of the Department of Meteorology, CUI, presented his research on coastal remote sensing at the “2023 International Conference on Climate Change and Disaster Risk” held in Islamabad from October 25-27, 2023. The conference aimed to explore the impact of climate change on natural disasters, reduce disaster risk, and raise public awareness about disaster prevention and mitigation. It was organized by the China-Pakistan Joint Research Center on Earth Sciences (CPJRC) in collaboration with the

International Association for Hydro-Environment Engineering and Research (IAHR), the Pakistan Academy of Sciences (PAS), and Quaid-i-Azam University (QAU).

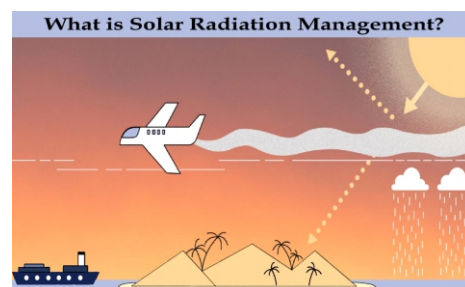


This conference addresses SDG 13: Climate Action .The discussions on climate change and its impact on natural disasters directly support efforts to inform and collaborate with local governments for disaster risk reduction and climate adaptation strategies. By raising public awareness, the conference encourages community engagement in sustainable practices that enhance urban resilience, thereby contributing to SDG 13. Moreover, the emphasis on coastal remote sensing promotes the sustainable management of marine ecosystems and raises awareness about preserving aquatic resources, aligning with SDG 13’s goal of maintaining healthy oceans and marine environments. Ultimately, by sharing research findings and strategies, the conference contributes to global efforts to combat climate change and its associated impacts, which is central to achieving SDG 13. This collective engagement is essential for developing effective policies to mitigate the adverse effects of climate change, thereby contributing to the achievement of these SDGs.

Prof. Dr. Athar Hussain, Principal Investigator of the project titled “Impact of Solar Radiation Management and Climate Change on Malaria Dynamics in South Asia”, funded by the UK-based The DEGREES Initiative, aims to better understand how Solar Radiation Management (SRM) could affect the redistribution of malaria in South Asia, including Iran, Afghanistan, India, Nepal, Bangladesh, and Bhutan, from February 2023 to February 2024. This study marks the first attempt to assess the impacts of SRM on a vector-borne disease in the region. By extending Prof. Athar’s research group’s efforts, the project seeks to establish a network of professionally trained local experts in the field of regional climate change and health in Pakistan. The results will be disseminated at the district level—the

fundamental administrative tier for the healthcare system in Pakistan. The project aims to promote engagement with a diverse set of national stakeholders, ensuring that relevant climate-health nexus information is made available to policymakers, thereby helping to bridge the communications gap regarding SRM.

The seminar directly addresses SDG 13 by exploring innovative strategies for mitigating climate change impacts. By discussing SRM techniques, Prof. Dr. Athar Hussain provided participants with insights into potential climate intervention methods that could help manage global warming. The seminar emphasized the importance of understanding the risks and benefits associated with SRM, promoting informed discussions on climate adaptation strategies. This aligns with global efforts to enhance resilience against climate change and improve public understanding of climate-related issues, thereby contributing to sustainable climate action.



The Geospatial Science Society, Department of Meteorology has conducted a Climate Change Awareness Walk, on 20th May 2023 under Green Youth Movement (GYM) club for Climate Change awareness. The aim of the event was to draw awareness to the adverse impact of climate change to Pakistan. Many students and Faculty & staff of COMSATS participate in this event.

Relevance to SDG: This seminar addresses SDG 13: Climate Action (Indicators 13.3.1). This event emphasizes the urgent need to combat climate change and its impacts. By organizing a Climate Change Awareness Walk, the society aimed to educate participants about the adverse effects of climate change on Pakistan, particularly in a region vulnerable to climatic shifts. Engaging students, faculty, and staff cultivates a sense of community responsibility and empowers individuals to act. Raising awareness is a crucial step in mobilizing collective efforts to address climate change, encouraging sustainable practices, and contributing to national and global initiatives aimed at achieving climate resilience.

PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Disaster management and environmental policy integration in Pakistan — an evaluation with particular reference to the China–Pakistan Economic Corridor Plan	Abdul Waheed Thomas Bernward Fischer Sajida Kousar; Muhammad Irrfan Kahn	Springer Nature	5.8	NULL
Dysregulation of butyrylcholinesterase, BCHE gene SNP rs1803274, and pro-inflammatory cytokines in occupational workers	Sosan Andleeb Khan Mbah Ntepe Leonel Javeres Syed Tahir Abbas Shah	Elsevier	8.431	NULL
Effect of Climate Change on Vegetation and Snow Cover Area in Gilgit Baltistan Using MODIS Data	Z. Satti , M. Naveed, M. Shafeeqe	PubMed	5.19	https://pubmed.ncbi.nlm.nih.gov/36223023/
Investigating catalytic oxidative desulfurization of model fuel using hollow PW12/TiO2@ MgCO3 and performance optimization via box-behken design	Sadaf Ul Hassan Hamna Khalid Sidra Shafique	Elsevier	8.8	https://www.sciencedirect.com/science/article/pii/S004565352301929X
Lichens as spatially transferable bioindicators for monitoring nitrogen pollution	Jay Delves Jason E.J. Lewis Niaz Ali	Elsevier	8.9	https://www.sciencedirect.com/science/article/pii/S0269749123005778
Recent trends in environmental sustainability.	Muhammad Shahid Hafiz Faiq Bakhat	Springer Nature	5.8	https://link.springer.com/article/10.1007/s11356-023-29348-1

Total Publications :37 , only High Impact Factor Publications are highlighted here

SDG 13 considered the most important SDG during 2023 several projects related to this SDG were conducted worth of **22.77 million PKR** worth some of them are mentioned here like **“Design and development of voltage controlled tunable filter and low noise amplifier”, “Intelligent Reflecting Surfaces Assisted YAV Communication to Improve Air to Ground Connectivity”, and “Study of Impact of SRM and Climate change on Malaria Dynamics in South Asia”** were conducted by CUI faculty.





SDG-14 LIFE BELOW WATER



Achieving SDG 14 requires collaboration among governments, businesses, civil society, and the international community, emphasizing the interconnectedness of ocean health with global sustainability. Efforts must focus on shared responsibility and innovative solutions to ensure the longevity of marine resources for future generations.

COMSATS University Islamabad's Environmental Science Department plays a vital role in promoting sustainable fishing practices through educational outreach activities. By raising awareness about critical issues like overfishing, illegal and unreported fishing, and destructive fishing methods, the department helps communities understand the importance of protecting marine ecosystems.

These outreach initiatives aim to:

1. **Educate Communities:** Inform local populations about the impacts of unsustainable fishing practices on marine biodiversity and livelihoods.
2. **Empower Local Stakeholders:** Engage community members in discussions and activities that encourage sustainable practices, fostering a sense of ownership and responsibility towards marine resources.
3. **Promote Best Practices:** Share knowledge on sustainable fishing techniques and the importance of adhering to regulations, highlighting the long-term benefits for both the environment and local economies.
4. **Encourage Participation:** Involve community members in conservation efforts, such as monitoring local fisheries or participating in clean-up campaigns, to build a culture of stewardship.

Through these efforts, COMSATS University not only raises awareness but also empowers communities to take proactive steps toward marine conservation and sustainability, ultimately contributing to the achievement of SDG 14.

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 J Ullah Khan, Muhammad Aman, Wazir ur Rehman, Faran Khan, Tooba Jamil and Rahat Hashim.



Ocean Connects the World

To promote the exploration and protection of the ocean and boost the development of marine engineering, jointly organized by Mechanical and Vehicle Engineering Division of Chinese Academy of Engineering, Science and Technology Committee of China State

Shipbuilding Corporation Limited, and jointly organized by Systems Engineering Institute of China State Shipbuilding Corporation Limited, China Ship Research and Development Academy, Pilot National Laboratory for Marine Science and Technology (Qingdao), and Harbin Engineering University, the International Conference on Marine Equipment & Technology and Sustainable Development (ICMETSD), was organized in Beijing, China on March 31 and April 1, 2023. During the conference, the Presidents' Forum was organized to discuss and exchange views on the cultivation of marine talents and the future development of ocean, innovation and international cooperation on ocean science and technology, and the development trend of cutting-edge marine science and technology, in order to strengthen exchange and cooperation among China and foreign universities in the field of shipbuilding and ocean, comprehensively improve the competency and level of universities in serving the global ocean governance, and provide intellectual and technological

support for global ocean governance. During his talk he mentioned that Pakistan is located along the Arabian Sea and offers great potential for marine-based activities in Education and Technology for shipping, fisheries, aquaculture & tourism. Hence development of sustainable marine equipment and technology can play a significant role in unlocking the potential of Pakistan's marine sector while ensuring its long-term viability. Above mentioned developments can not be ensured to be sustainable without Capacity building in Marine Engineering and Sciences degrees at BS, MS and PhD levels and through Specialized Courses.



Keynote address on “Need of Computer Aided Engineering for Real World Engineering Problems” with focus on the integrated water and sediment flow simulations

The keynote on “Need of Computer Aided Engineering for Real World Engineering Problems” with focus on the integrated water and sediment flow simulations was delivered by the Director Campus/UNESCO Chair on Knowledge Systems for Integrated Water Resources Management in 1st International Multidisciplinary Conference on Emerging Trends in Engineering Technology 2023 held from May 9 – 11, 2023. In his address he emphasized on energy efficient building designs to target the SDG 11 —Sustainable Cities and Communities for safe human settlements. He focused on the integrated water and sediment flow simulations through tunnels and reservoirs for life predictions, optimum renewable energy systems, industrial trusses and lightweight hybrid structure, flood and drought modeling using RS and GIS tools and others with respect to Big Data, AI and Machine Learning and others to enable the role of water management resources in interlinked SDG 6 and 13 for Clean Water and Sanitation and Climate Action

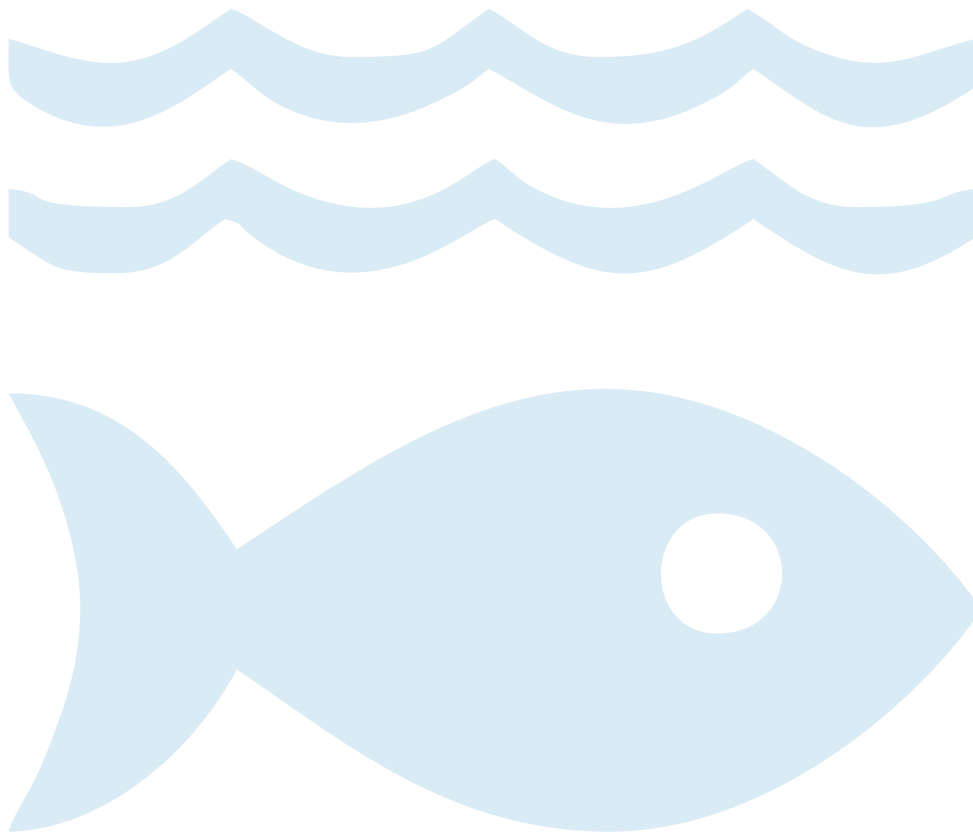


PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Robust Data Driven Analysis for Electricity Theft Attack-Resilient Power Grid	Inam Ullah Khan, Nadeem Javaid, C. James Taylor	IEEE Transactions on Power Systems	10	https://ieeexplore.ieee.org/document/9743316
SeAC: SDN-enabled Adaptive Clustering Technique for Social-Aware Internet of Vehicles	Aamir Akbar Muhammad Ibrar Mian Ahmad Jan	IEEE	9.551	NULL
Zinc oxide nanoparticles mediated biostimulant impact on cadmium detoxification and in silico analysis of zinc oxide-cadmium networks in Zea mays L. regulome	Yashfa Tanveer Saman Jahangir Zafar Abbas Shah	Environment al Pollution	9.988	NULL
Influence of the chronic groundwater fluoride consumption on cholinergic enzymes, ACHE and BCHE gene SNPs and pro-inflammatory cytokines: A study with Pakistani population groups.	Syed Ali Musstjab Akber Shah,Bibi S Habib R Khan S, Sania Shafiq, Syed Sayyam Abbas , Shaiza Khan, Eugenie Nepovimova, Mansoor Shaukat Khan , Kamil Kuca, Syed Muhammad Nurulain		10	https://pubmed.ncbi.nlm.nih.gov/37030382/
Toxic trespassers: Uncovering phthalates and organophosphate flame retardants in children's rooms and their health implications	Syed Ali Musstjab Akber Shah Nadeem Ali Sultan H. Alamri	Elsevier	10	https://www.sciencedirect.com/science/article/abs/pii/S0048969723052889?via%3Dihub

Total Publications:709, only high impact factor Publications are mentioned here.

In 2023 there were different project carried out among them a project titled **“Design and Development of low noise Transmitter / Receiver circuit for acoustic transducer of deep-water echo Souder”** of **2 million** worth is mentioned





SDG-15 LIFE ON LAND



Sustainable Development Goal 15 (SDG 15), focused on "Life on Land," aims to protect, restore, and promote the sustainable use of terrestrial ecosystems, manage forests sustainably, combat desertification, and halt biodiversity loss. Achieving these targets is essential for the health of our planet and the well-being of current and future generations.

COMSATS University Islamabad (CUI) plays a significant role in advancing these objectives through various initiatives and programs. Key efforts include:

- 1. Research and Conservation Projects:** CUI conducts research on ecosystems and biodiversity, contributing to scientific understanding and promoting effective conservation strategies.
- 2. Educational Programs:** Courses like Fundamentals of Biology, Landscape Design, and Natural Resource Management equip students with the knowledge and skills needed to address ecological challenges and promote sustainable practices.
- 3. Community Engagement:** Collaborating with local communities, CUI fosters awareness and involvement in ecosystem conservation, empowering residents to take action to protect their natural resources.
- 4. Biodiversity Protection:** Through outreach and educational campaigns, CUI focuses on the importance of preserving threatened ecosystems and the species that inhabit them, encouraging sustainable land use practices.

These combined efforts reflect CUI's commitment to supporting SDG 15 and fostering a sustainable relationship between people and the land, ensuring a healthier environment for future generations.

COMSATS University Islamabad (CUI) is actively involved in the conservation and sustainable management of ecosystems and their biodiversity. The university collaborates with local communities to promote the protection of natural habitats and the species that inhabit them.

Key initiatives and programs at CUI include:

- 1. Educational Programs:** CUI offers various courses related to flora and fauna, such as Fundamentals of Biology, Landscape Design, and Natural Resource Management. These programs equip students with the knowledge to understand and address ecological challenges.
- 2. Agricultural Land Management:** The university provides programs focusing on sustainable practices for land use in agriculture, including disciplines like Soil Science, Environmental Geology, Soil and Water Conservation, and Natural Resource Management. These fields emphasize maintaining soil health, conserving water, and managing resources effectively.
- 3. Consultancy Services:** CUI offers consultancy to local farmers on post-harvest practices for vegetables. This includes guidance on handling, storage, and preservation techniques to minimize waste and enhance the quality of produce.
- 4. Conservation and Restoration:** The university's programs in soil and water conservation aim to develop strategies for the sustainable use and management of land resources, helping to prevent degradation and promote ecological health.

Through these efforts, COMSATS University Islamabad not only contributes to the achievement of SDG 15 but also plays a crucial role in empowering local communities to engage in sustainable practices, ensuring the preservation of ecosystems for future generations.

World Environmental Day organized by Department of Environmental Sciences

Department of Environmental Sciences
COMSATS University Abbottabad
Campus organized a one-day event on world environmental day. This day is specially celebrated to aware the people of environmental issues and this event. Environmental protection society
Department of Environmental Sciences
and collaboration with WASSA and WWF

jointly organized the event mainly lead by the chairman Prof. Dr.Irshad, HoD, Dr. Faridullah and also convene with Dr. Malik Tahir Hayat, and advertising committee Dr.Shumaila, DOO Environmental Sciences Dr. Awais Arfeen, and their team. At this event, they invite some students from City School. Where they perform about environmental issues. A quiz competition was also taken. Later on, Director WASSA and deputy WWF give the awareness about environmental issues, and then at the closing ceremony Director CUI, ATD Campus Dr. Maroof Shah, and chairmen Dr.Irshad also explain to people about the environmental issues and they conclude the vote of thanks.

1st Meeting of the Water, Environment & Agriculture Societies Consortium under Water Resource Accountability (WRAP)-Climate resilient Solutions for Improving water Governance (CRS-IWaG), IWMI - September, 2023

The 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 International Water Management Institute (IWMI), Lahore, Pakistan. On behalf of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus, Engr. Sarmad Manzoor from the Department of Civil Engineering attended the meeting and delivered a presentation on the operational implementation plan of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus activities with respect to Water Resource Accountability (WRAP) and Climate resilient Solutions for Improving Water Governance. The Director –IWMI & PROJECT Leader WRAP, Dr Mohsin Hafeez presented a welcome address along with a brief introduction about the IWMI and overview of WRAP Programme. All invited member (academic institutions) of the consortium presented their progress and future plan of action for improving the water governance. The

UNESCO Chair was actively participated and addressed the impacts of climate change on water resources accountability and resilient Solutions for Improving water Governance. This meeting provided a great networking opportunity for partners.



Invited talk on “CO2 Emissions from Pakistan Marine Industry: How Can Marine Industry be Greener?”

The UNESCO Chair on Knowledge Systems for Integrated Water Resource Management (IWRM), COMSATS University Islamabad, Wah Campus in collaboration with Cranfield University, UK, and several institutions from Pakistan including NUST, GIKI, NEO, University of Karachi, and Okara University jointly organized a workshop on Emerging Trends & Technologies: Carbon Capture and Storage, Climate Change and Net Zero on August 21, 2023 at CUI, under the Pak UK Education Gateway Mobility Partnership for Faculty funded Program by British Council. The workshop was comprised of a series of invited talks, panel discussion as part of its technical program by renewed academicians and industrial representatives. 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. The Director Campus / UNESCO Chair on Knowledge Systems for Integrated Water

Resource Management (IWRM) 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 emission of 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. The workshop was attended by the academia other than the partner institutions including LUMS, International Islamic University, Islamabad, Capital University of Science & Technology, Punjab University, Riphah University, NUTECH, Pak Austria, University of Wah, UET Lahore, Bahria University, CCRD, CUI Campuses. The representatives of scientific and industrial organizations i.e. GCISC, IWMI, HUBCO, QATPL, POL, SIEMENS, CREECO, ASHRAE Pak Chapter, WAPDA, Energy Sector, SDPI, OPML, Pakistan Navy.



Pakistan Water Week - National Exhibition

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”. The objectives of the Pakistan Water

Week 2023 are to enhance the awareness, sharing knowledge among young water professionals by giving them an opportunity to share their vision for a water secure future. The event was held on December 7 – 8, 2023 at Pak- China Friendship Center, Islamabad.

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.



PUBLICATIONS

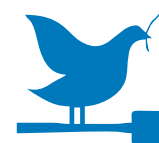
Publications Title	First Author	Publisher	Impact Factor	Weblink
The occurrence, characteristics, and adaptation of A-to-I RNA editing in bacteria: A review	Weixue Liao, Wenhan Nie, Iftikhar Ahmd	Frontiers in Microbiology	6.064	https://doi.org/10.3389/fmicb.2023.1143929
Impacts of COVID-19 pandemic on environment, society, and food security	Hafiz Mohkum Hammad	Springer Nature	5.8	https://link.springer.com/article/10.1007/s11356-023-25714-1
Prolonged Repellent Activity of Plant Essential Oils against Dengue Vector, Aedes aegypti	Abdullah Haris Muhammad Azeem, Muhammad Ghazanfar Abbas, Muhammad Mumtaz, Raimondas Mozuratis, Muhammad Binyameen	MDPI	4.927	
Phosphorus extractability in relation to soil properties in different fields of fruit orchards under similar ecological conditions of Pakistan	Sumera Bibi Muhammad Irshad Faridullah	Frontiers	4.49	https://doi.org/10.3389/fevo.2022.1077270
Nitrogen Mineralization in Texturally Contrasting Soils Subjected to Different Organic Amendments under Semi-Arid Climates	Hafiz Muhammad Rashad Javeed	Land	3.905	https://doi.org/10.3390/land12050989
Enrichment and Characterization of Proficient Lignocellulolytic Novel Bacterial Isolates from diversified Galiyat Forests of Lower Himalaya	O.A. Malik, A. Iqbal, M. I. Rashid	Forests	3.28	https://www.mdpi.com/1999-4907/14/6/1180
Unraveling the impact of human perturbation on nitrogen cycling in terrestrial ecosystems of lower Himalaya, Pakistan	Tahir Zaman, Saeed Ahmad Asad	Springer Link	3	https://link.springer.com/article/10.1007/s10661-023-11964-6

Total Publications:10, High Impact Factor Publications are highlighted

In 2023 the most of projects carried out in SDG 15, almost **40.17 million PKR** worth was earned through this SDG, among them a project titled **“Adapting to climate change through climate smart agricultural practices in water limited landscapes in South Asia”** is worth mentioning.



SDG-16 PEACE, JUSTICE AND STRONG INSTITUTIONS



Goal 16 aims to promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels. Peace, stability, human rights and effective governance, based on the rule of law, are central to the realization of child rights, and a prerequisite for sustainable development. Governments can offer the first line of protection: birth registration systems give children claim to vital social services, equitable justice systems and other forms of child protection.

No child should ever be exposed to violence. Yet, globally, millions of children continue to face violence in their homes, schools, communities and online. Violence takes many forms: emotional, physical and sexual. Witnessing or experiencing violence erodes a child's health, well-being and potential.

Workshop on Cyber-Harassment: "Prevention and Laws" Event Report

Harassment, held on 21st July 2023. The workshop, organized by Dr. Muneeba Shakil (Assistant Professor, Clinical Psychologist, MS Clinical Psychology Program Coordinator) at Department of Humanities, COMSATS University Islamabad, Lahore Campus, took place from 11:00 am to 1:00 pm, with an esteemed guest speaker, Ms. Rukhsana Tauheed, Assistant Director of the FIA Cybercrime Circle in Lahore.

Event Highlights

The workshop addressed the pressing issue of cyber-harassment and the significance of preventive measures and legal frameworks to combat this growing concern in today's digital world. Ms. Rukhsana Tauheed's extensive experience and expertise in investigating cybercrime cases, particularly cyber-harassment, provided valuable insights to all attendees.

The workshop covered a range of crucial topics, including:

Understanding Cyber-Harassment: Attendees gained insights into the various forms and manifestations of cyber-harassment, such as cyberbullying and

online stalking.

Impact and Consequences: The workshop delved into the psychological and emotional impact of cyber-harassment on victims and the broader society.

Prevention Strategies: Participants learned about practical steps that individuals and organizations can take to safeguard against cyber-harassment incidents.

Legal Aspects: The legal framework surrounding cyber-harassment, including relevant cybercrime laws and their application to different scenarios, was discussed in detail.

Reporting and Seeking Help: The workshop educated attendees about the appropriate channels for reporting cyber-harassment incidents and seeking assistance from law enforcement agencies.

Audience Profile

The workshop welcomed a diverse group of participants, including students, educators, parents, and candidates interested in admission in COMSATS. Their active engagement and enthusiasm contributed to the success of the event.



ICPB 2023

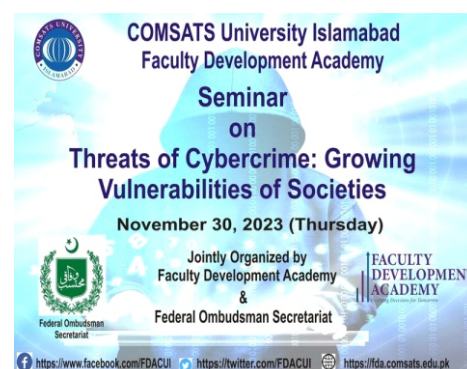
We are pleased to invite you to a multidisciplinary "International Conference on Peace Building: Policies, Research, and Strategies" on March 15-

16, 2023. The conference is primarily being organized to invite international and national 'experts, social scientists, researchers, and policy makers at the platform of COMSATS University Islamabad, Lahore campus to share their views and research, to plan strategies and policies for promotion of peace. This conference is designed to promote peace building by encouraging multi-disciplinary research, education and training from social sciences disciplines including psychology, sociology, political science, international relations, history, religious studies, language, literature, applied linguistics, law, media and communication etc. This would address issues on peace and tolerance and violent and non-violent conflicts resolution; and the experts will brainstorm ideas about how to promote peace in society and prevent violence and destructive conflicts.



FDA conducted a 3-day workshop for the Staff College Quetta on 'Development of MCQs Based System'. The participants were illuminated with knowledge and were showed the CUI Islamabad campus. They also had the privilege to visit the Nano-labs of CUI

FDA COMSATS is organizing a seminar on "Innovation & Entrepreneurship for Startups". It is specifically arranged for the faculty and students of CUI Islamabad Campus. Be a part of it and benefit yourself.



One Day Symposium on Emerging Trends in Language Research: Interdisciplinary Approaches to Theoretical and Applied Linguistics

Department of Humanities at COMSATS University Islamabad, Lahore Campus organized a One Day Symposium on Emerging Trends in Language Research: Interdisciplinary Approaches to Theoretical and Applied Linguistics.

Dr. Sara Khan (Lecturer) convened and materialized the concept of the event and Dr. Saima Chatta, Mr. Muhammad Asif Ikram, Ms. Maryam Jehangir, and Ms. Huma Ejaz provided support in media coverage, refreshments, moderating of panel sessions and opening and closing of the event. The event was attended by the students of BS and MS English Language and Literature. Ms. Shazia Aziz (Assistant Professor), Mr. Samar Kamal Fazli (Assistant Professor), and Dr. Aasia Nusrat (Associate Professor) also graced the event with their worthy participation. The opening and closing of the symposium were graced with motivating and worthy remarks by Dr. Musferah Mehfooz, Head of the Department and Dr. Shameem Fatima, Chairperson, Department of Humanities, respectively. This symposium turned out to be a cohesive collection for linguistic research that falls outside the traditional bounds of sociolinguistics and applied linguistics. With the understanding that theoretical stances and ideas about human behavior can and do cross over disciplinary boundaries, the panel sessions in the symposium will concentrate on the fact that linguistics and language research sit at the intersection of humanities and the social sciences. Each of the panel session aims to present new connections and fresh viewpoints to contribute to the interdisciplinary inquiry into the nature of human language. The panel speakers and session chairs that presented their views on the theme of the event were as follows:

1. Iram Amjad (Assistant Professor, English at Higher Education Department, Lahore)
2. Tabassum Saba (Assistant Professor, Department of English Language and Literature, University of Lahore)
3. Khalid Ahmed (Associate Professor, Department of English, University of Central Punjab)
4. Muhammad Islam (Assistant Professor, Department of English Language Teaching & Linguistics,

University of Punjab)

5. Muhammad Umer Azim (Assistant Professor, English at Higher Education Department, Lahore)
6. Zafar Iqbal Bhatti (Associate Professor, Department of English, Minhaj University, Lahore Campus)

The Symposium contributed to the better understanding of languages (individually), of language (as a collective human ability), and of their speakers and helped to better understand how society functions and how to improve it, and this is the domain of study of linguistics. The event highlighted that the foundations of linguistics begin with descriptions of the sounds and structures of many languages, from languages of global exchange spoken by millions to local dialects spoken in remote corners of the world. Finally, the symposium helped the students of BS and MS English Language and Literature connect different academic disciplines to the study of language and to the everyday use of the English language.

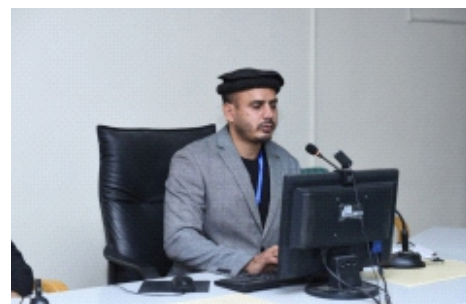


E-commerce Workshop Conducted By COMSATS IT Center

COMSATS IT Centre organized a 3-4 hours Workshop on Ecommerce on Thursday, January 5, 2023. A total of 38-42 participants registered for this workshop. Dr. Maroof Shah (Director COMSATS Abbottabad) distributed certificates among all participants.

- Workshop Contents
- What is Ecommerce?
- Types of Ecommerce
- Popular Ecommerce Websites

- What is Drop shipping & Print on Demand
- Print on Demand websites & examples
- Overview of Daraz.pk, Shopify, WordPress-WooCommerce
- Designing Product Images using Canva
- Setup Ecommerce Website using Shopify



Creative Seminar on the Evolution and Scope of Animation

A seminar on Creative Seminar on the Evolution and Scope of Animation was organized by Abbott Wolf Studios in collaboration with the Coordination Office and the Computer Science Department CUI, Abbottabad Campus was held on 10th June 2023. The event aimed to provide valuable insights into the world of animation and its significance in various industries.

The seminar commenced promptly at 11:30 a.m. with an introduction by the event coordinator, highlighting the purpose and objectives of the seminar. The New Auditorium, with its spacious seating capacity, was an ideal venue for hosting such an event. The arrangement of seating, stage, and audio-visual equipment ensured a conducive

environment for both the speakers and the audience. The lineup of topics and speakers for the seminar was carefully curated to cover different aspects of animation and showcase the expertise of renowned professionals in the field. The seminar topics and speakers were as follows:

Starting Speaker: “Scope of Animation in Freelancing” by Aitzaz Khan, Influencer, CEO at TechKor: Aitzaz Khan, a respected influencer and CEO at TechKor, initiated the seminar by discussing the vast opportunities available in animation freelancing. He shared his experiences and provided valuable insights on how participants could leverage their skills to establish a successful career path in freelancing.

Second Speaker: “Overseas Career Opportunities in Animation” by Wajahat Awan, Founder at DeAxprou: Wajahat Awan, the visionary founder of DeAxprou, took the stage next to inspire the attendees with invaluable insights into global career prospects in animation. He highlighted the potential for international opportunities and shared success stories to motivate participants to explore new avenues for professional growth.

Third Speaker: “Animation in the Media & Entertainment Industry” by Dr. Raja Kashif Janjua, Media Consultant, Anchor, and Analyst: Dr. Raja Kashif Janjua, a renowned media consultant, anchor, and analyst, captivated the audience with his in-depth knowledge of animation in the media and entertainment industry. He shed light on the role of animation in shaping the media landscape, emphasizing its relevance in captivating audiences and enhancing storytelling.

Fourth Speaker: “The Evolution of Animation” by Prof. Zafar Iqbal, Professor, and HoD at Pak-Austria Fachhochschule: Prof. Zafar Iqbal, a distinguished professor and Head of the Department at Pak-Austria Fachhochschule, took the participants on an intriguing journey through the remarkable evolution of animation. He showcased how animation has transformed over the years and its

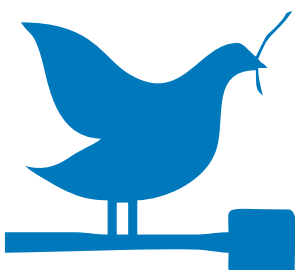
impact on various industries, ranging from film and television to advertising and education.

Fifth Speaker: “Animation Process & Q&A for Upcoming Course” by Umar Jalal, Animator, Founder at Abbottwolf Studios: Umar Jalal, an accomplished animator and the founder of Abbottwolf Studios, concluded the seminar by guiding participants through the animation process. He shared his expertise, provided practical insights, and addressed the audience's queries regarding an upcoming course, ensuring a comprehensive understanding of the animation field.

The seminar concluded with an engaging ending ceremony, during which the speakers were honoured for their valuable contributions. Shields were presented to each speaker by COMSATS University Islamabad Abbottabad Campus as a token of appreciation, recognizing their expertise and dedication to the field of animation. Furthermore, a representative from Abbott Wolf Studios expressed gratitude and presented souvenirs to Dr. Mazhar Ali, Head of the Computer Science Department, and Mr. Ibrahim Ahmad, Head of the Coordination Office. This gesture acknowledged their pivotal role in supporting the event and ensuring its successful organization. The Creative Seminar on the Evolution and Scope of Animation was a resounding success, providing students and participants with a comprehensive understanding of animation and its impact on various industries. The lineup of speakers, carefully chosen topics, and the collaboration between Abbott Wolf Studios, the Coordination Office, and the Computer Science Department played vital roles in the success of the event.

The seminar not only enriched participants' knowledge but also created an environment for networking and fostering connections between industry professionals and aspiring animators. Attendees expressed their appreciation for the opportunity to learn from experts in the field and left the seminar inspired

and motivated to pursue their passions in animation. We extend our heartfelt gratitude to all the speakers for their valuable insights, the participants for their active engagement, and the organizers for their meticulous planning and seamless execution of the seminar. The success of this event set a precedent for future endeavours in the field of animation at COMSATS University Islamabad Abbottabad Campus.



PUBLICATIONS

Publications Title	Author	Publisher	Impact Factor	Weblink
Examining the effect of liquidity creation on banking profitability and stability: moderating role of political instability	Javid, M.	Emerald	0	NULL
Navigating the Intersection of Social Media and Countering Violent Extremism in Pakistan	Amber Javed, Noor Elahi, Bahadar Nawab	Asian journal of International Peace and Security	0	http://ajips.org/index.php/ajips/article/view/2023-vol-07-navigating-the-intersection-of-social-media
Organizational Change and Workplace Incivility: Mediated by Stress, Moderated by Emotional Exhaustion	Muhammad Ali Raza	MDPI	0	https://www.mdpi.com/1660-4601/20/3/2008

Total Publications :3





PARTNERSHIPS FOR THE GOALS



Strengthen the means of implementation and revitalize the global partnership for sustainable development

Goal 17 is crucial for enhancing the means of implementation and revitalizing global partnerships for sustainable development. These partnerships are essential for effectively implementing the Sustainable Development Goals (SDGs) and ensuring that progress is made across all areas, particularly in advancing child rights and well-being.

Industry- Academia Partnership with NewTech Pipes Islamabad

The DME established relationship in submitting a proposal to NewTech Pipes for arranging internships and industrial visits for students to NewTech Pipes. During their visit the faculty members examined the manufacturing of pressure pipes like HDPE, PVC, MDPE, EC, PPRC and fittings along with the frequent problems that are encountered by various facilities and production plant on Jan 03, 2023 under the guidance of Mr. Asim bin Kazim. The visitation team included Dr. Atta ur Rehman Shah (Associate Professor/Head of DME), Dr. Shoaib Naseem (Assistant Professor), Dr. Shakeel Afzal (Assistant Professor), Mr. Arsalan Hussain (Lecturer) and Mr. Bilal Nutkani (Lab Engineer).

Joint Collaboration and Cooperation

The Memorandum of Understanding (MoU) was inked between COMSATS University Islamabad and the Benazir Bhutto Shaheed University of Technology and Skill Development (BBSUTSD) Khairpur Mirs, Pakistan on June 06, 2023. On behalf of CUI, the in-charge Campus, signed the MoU to promote the future collaboration in the area of education, research and innovations, and both institutions recognize the importance of academic partnerships for enhancing the quality of higher education and for fostering mutual interests.

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 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 Team.

CUI is committed to knowledge-sharing through quality education and actively engages the community by offering skills development programs. This includes hands-on training sessions, workshops, and seminars designed to enhance employability and professional skills.

Additionally, internships are provided to diploma holders and vocational trainers, allowing them to gain practical experience and improve their professional capabilities. The focus on poverty reduction extends to empowering women by creating equal opportunities for them to excel in their chosen fields.



Through these initiatives, COMSATS University aims to strengthen economic conditions, improve living standards, and ultimately contribute to the overarching goal of eradicating poverty.

A team of AIAA students Chapter from the Department of Mechanical Engineering

(DME), CUI Wah Campus participated in and won RC plane flying competition Taakra'23 by the University of Central Punjab. The event was held from February 23-26, 2023, in which 14 teams from across the country showcased their skills and expertise in building and flying RC planes. The teams were first judged based on their knowledge related to aerodynamics, electronics, and principles of flight. The team "Ascenders" of CUI Wah Campus emerged victorious with an impressive flight time of 18 minutes. The team was composed of Mr. Usama Javed and Mr. Usama Akram, and the project was supervised by Assistant Professor, Dr. Muhammad Shoaib Naseem



To further its goals in poverty reduction, COMSATS University actively invests in capacity-building initiatives. On August 31, 2023, Ms. Sadia Nawaz, the In-charge of the Student Financial Aid Office (SFAO), attended a training session on the "Scholarship Management System" as part of the USAID-funded Merit and Needs-Based Scholarship Program (MNBSP). This training equips staff with the necessary tools to effectively manage scholarship applications and resources, ultimately enhancing the university's ability to support deserving students from low-income families.

By improving the efficiency of scholarship management, CUI aims to provide more opportunities for students to access quality education, thereby contributing to poverty alleviation and promoting sustainable development.



Hands-on Training on the Implementation of Scholarship Management System

Blood Donation Camp

The Pakistan Red Crescent Society (PARC) organized a Blood Donation Camp at CUI on May 23, 2023. More than one hundred volunteers showed interest in donating blood out of which 91 blood units were collected for saving the lives of critical patients in emergency who fighting against dread diseases. The donor students and employees' aim are to serving the humanity and to save many precious lives.



The Disaster Management Committee (DMC) organized a training session to provide first-aid training to first-semester students in the BBA and BSAT programs. This initiative aimed to equip students with essential skills to manage unforeseen catastrophic events effectively. The session was conducted in collaboration with the Red Crescent Society of Islamabad.

The mantra "First aid is better than late aid" emphasizes the importance of timely intervention in emergencies. Therefore, enhancing awareness and support for first-aid training is crucial, and more sessions like this should be organized regularly to prepare students for any emergencies they may encounter in the future.



Character Building at CUI Wah

To spread the knowledge on the practical implementations and wellbeing of the principles needed to be followed in our daily lives considering the Seerat of Prophet Muhammad (PBUH). The Department of Electrical and Computer Engineering on April 6, 2023, organized a seminar on character building through Seerat un-Nabi S.A.W. The Guest Speaker, renowned scholar of Islamic studies, Assistant Professor and Head of

the Department at Riphah International University Islamabad. Dr. Hafiz Waqas Khan delivered a very comprehensive lecture on the Life and Times of Prophet Muhammad S.A.W. He addressed important aspects of Seerat un-Nabi S.A.W considering Qur'an affecting today's society with the special emphasis on character building.

Skills Development Rising by Lifting Others - Seerat Exhibition

On October 5, 2023, the Department of Electrical and Computer Engineering, in collaboration with the Qirat & Naat Society of CUI, Al-Madina Islamic Research Centre (MIRC), and Nibras Institute, organized an educational exhibition focused on the life and teachings of the Holy Prophet Muhammad (SAWW).

Visitors were provided insights into the character and mission of the Holy Prophet, highlighting his significant role in Islamic history and the understanding of Islam. To inspire a deeper appreciation of the Prophet's Seerah, the exhibition featured a variety of artifacts, interactive presentations, and multimedia elements designed to engage attendees.

This initiative aimed to encourage learning about the Prophet's life, teachings, and the historical context in which he lived. The event saw a strong turnout, with many students, faculty, staff, and representatives from civil society in attendance.



On July 12, 2023, the Outreach Program Committee at CUI Wah Campus organized an informative awareness session. The event began with a warm welcome from Dr. Ambreen Shahnaz, who introduced the Outreach Program team, speakers, and event logistics.

Dr. Yaar Khan, the Convener of the Outreach Program Committee, shared insights into the fundamentals of the UN Sustainable Development Goals (SDGs), outlining the committee's objectives and initiatives.

Ms. Nabila Raheem, a professional clinical psychologist, addressed adolescent development and emphasized the importance of mental

health for socialization, as well as common causes of mental illness.

Dr. Hira Khan, a medical professional, provided valuable tips on maintaining a healthy lifestyle and precautionary measures for staying active. Additionally, Dr. Rukhsana Sheikh, a renowned gynaecologist, discussed reproductive health as an integral aspect of overall physical, mental, and social well-being.



Rescue 1122 Training to Students on May 23, 2024

Under the directives of Dr. Ayaz Khan, Director General Rescue 1122 Khyber Pakhtunkhwa, and Mr. Arshad Iqbal, Regional Director North, and under the supervision of District Emergency Officer Mr. Arif Khattak and Training Wing In charge Mr. Malik Kamran, the Rescue 1122 team from Abbottabad provided training to the students of COMSATS University Abbottabad Campus. The training covered the services of Rescue 1122, first aid, basic firefighting, and disaster response. The Rescue Training Wing team conducted practical exercises in first aid and firefighting for the students.

District Emergency Officer Mr. Arif Khattak and COMSATS University Director MERIT.PROF.DR. IMTIAZ ALI KHAN also participated in the training session. Mr. Arif Khattak provided a comprehensive overview of the services offered by Rescue 1122. He invited the students of COMSATS University Abbottabad Campus to visit the Rescue District Office and Station, an invitation which was graciously accepted by MERIT.PROF.DR. IMTIAZ ALI KHAN. On this occasion, MERIT.PROF.DR. IMTIAZ ALI KHAN appreciated the services of Rescue 1122 Abbottabad and thanked the Rescue team.



Problem Solving Contributes to 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. 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.



QS WORLD UNIVERSITY RANKINGS BY SUBJECT 2023							
Engineering & Technology	Architecture & Built Environment	Economics & Business	Natural Sciences	Biomedicine & Health Sciences	Education & Social Sciences	Life Sciences & Agriculture	Arts & Humanities
267	251-300	301-350	451-500	401-450	201-250	501-550	
2	2	2	2	4	2	3	
Mathematics	Accounting & Finance	Environmental Sciences	Chemical Engineering	Physics & Astronomy	Geography	Interdisciplinary Studies	Law
251-300	301-330	401-450	351-400	301-350	351-400	351-400	
3	2	3	3	2	2	2	

COMSATS University Islamabad (CUI) is dedicated to building adaptive capacity for educational goals and advancing the Sustainable Development Goals (SDGs) through quality higher education. A key focus is on empowering women, enabling them to become active participants in society. CUI provides a platform for students to enhance their skills through knowledge-sharing activities, fostering personal development and encouraging them to contribute positively as engaged members of their communities.

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

On September 14, 2023, the Department of Computer Science, along with the ACM Student Chapter at CUI Islamabad Campus, organized a successful seminar that drew a full audience and an enthusiastic response from Computer Science students.

Guest speakers Lecturer Mian Muhammad Talha and Ms. Maha Rasheed from the Department shared their industry experiences and highlighted exciting opportunities available to students. The seminar concluded with an engaging discussion session and a Q&A, further enriching the attendees' knowledge and insights into the field.



Quality Assessment

The team of National Computing Education Accreditation Council (NCEAC) visited CUI at Islamabad campus on February 27, 2023, for the conduct of an accreditation audit of BS(CS) intake batches of Fall 2018, Spring 2019, and Fall 2019 and BS(SE) Fall 2018, Spring 2018 and Spring 2019. The Pakistan Engineering Council (PEC) conducted OBE based Re-Accreditation visit for BS Civil Engineering on June 23, 2023. The in-charge Campus gave a presentation regarding CUI and facilities and infrastructure for imparting quality education to students and highlighted research and future development plans.

IELTS Preparation

A seminar on —IELTS Preparation was arranged by ASHRAE Society of Department of Mechanical Engineering CUI Wah Chapter. Dr. Ayyaz Qadeer, Assistant Professor, Management Sciences Department was the resource person. The students were guided IELTS basics, exam details. He explained different tips of getting higher bands.



Industrial Open House and Career Job Fair

COMSATS University Islamabad (CUI), Wah Campus organized Open House and Job Fair on June 8, 2023, for the graduating students of Spring Semester 2023. In this event, more than 600 graduating students showcased their 237 Final Year Projects (FYPs), from the six different disciplines, Electrical & Computer Engineering, Civil Engineering, Mechanical Engineering, Computer Science, Software Engineering, and Management Sciences. More than 145 companies participated, shortlisted, interviewed graduating students, and offered jobs. Judges from industry and academia evaluated these projects, appreciated, and guided them with their valuable input. Industrial and academic representatives, faculty, and students visited and inspected the flagship projects. Prof. Dr. Shahid Mahmood Baig, S.I., Chairman, Pakistan Science Foundation (PSF) graced the occasion as the Chief Guest. In his opening remarks,

he emphasized on the importance of the industry-Academia partnership inculcating scientific research work environment in the country which is vital for the prosperity of Pakistan.



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

The Department of Mechanical Engineering in collaboration with ASME CUI 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.

PhD Scholars Successfully Passed their PhD defense

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.

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

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.

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.

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.

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.

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, and reflects a successful and insightful gathering. 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. Keynote speakers, including notable figures from both Pakistani and US educational and professional sectors, emphasized the importance of skill development, technological adaptation, and innovative thinking in preparing the workforce for future challenges. Interactive sessions and workshops focused on practical strategies for integrating advanced technologies and entrepreneurial skills into Pakistan's workforce development.



The event also highlighted PUAN's commitment to strengthening Pak-US relations through educational and professional exchanges, underscoring the importance of international collaboration in addressing global workforce challenges. The enthusiastic participation and positive feedback from attendees underscored the event's success in providing valuable insights and fostering connections that contribute to the ongoing development of Pakistan's workforce.



Winning the Project Funding under US Incubation Program

The collaboration between BIC-CUI and the US RAIN Catalyst to empower women entrepreneurs in Pakistan is a significant step toward fostering innovation and supporting local talent.

Ms. Kiran Rashid's project on the design and fabrication of a high-energy ball mill for synthesizing nanoparticles is particularly noteworthy. By focusing on additive manufacturing and addressing the need for locally produced materials, her work not only contributes to technological advancement but also reduces reliance on imports, which is vital for Pakistan's industrial growth.

Empowering women like Ms. Rashid in STEM fields can have a transformative impact on society, encouraging more women to pursue careers in engineering and technology. This project is a great example of how targeted support can lead to tangible advancements and inspire future generations of women in science and entrepreneurship.

Celebration of International Women Day

To uplift women's accomplishments and to highlight the success of bright and ambitious female scholarship awardees of USAID Merit and Needs Based Scholarship Program (MNBSP), the student of MS (CS) from CUI Wah Campus Ms. Laraib Fatima Talib appreciated and treated as a special case on her exceptional skills of intelligence and adds her success story of the USAID Scholarship Program on the occasion of the International Women Day on March 7, 2023 The event was organized by the Higher Education Commission (HEC) and the United States



of America Mission to Pakistan. The USAID Merit and Needs Based Scholarship Program motivates the young women to access higher education to achieve academic and professional milestones.

All Pakistan Inter University Bilingual Declamation Contest Gender Equality – 2023

Ms. Reemal Imtiaz from the Department of Computer Science has secured the 2nd position in All Pakistan Inter University Bilingual Declamation Contest 2023 held at HEC on May 4, 2023, Islamabad. She participated in the English contest on the theme, 'My Constitution - Guarantee of My Freedoms', organized to celebrate the 50th anniversary of the Constitution of Islamic Republic of Pakistan by the Higher Commission of Pakistan (HEC). Federal Minister for Law and Justice Azam Nazeer Tarar was the Chief Guest of the event. On the occasion the Chairman HEC, Dr. Mukhtar Ahmed, Executive Director HEC, Dr. Shaista Sohail and other dignitaries congratulated the winners and emphasized on the role of leaders and teachers in nation building. The Vice Chancellor, Faculty Members and large number of students from All Pakistan Inter University Bilingual Declamation Contest Gender Equality - 2023 different universities attended the event.



Outreach to Communities

Dr. Ambreen Shahnaz, Assistant Professor from Department of Management Sciences conducted the training session titled "Cascading Knowledge: Sharing My Experience as an OPEN Alumni on Availing Exchange Programs" on May 24, 2023, at WISE School and College (TRUST) Wah Cantt. The training was aimed to implement the outreach activities of CUI, Wah Campus and to highlight personal experiences, knowledge sharing, and encouraged others to participate in professional development programs. The event was well-attended by 25 female School Teachers and Principals.

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.

The UNESCO Chair on Knowledge Systems for (IWRM) organized a one-day Workshop on the Hydrological Modelling Application of SWAT on February 28, 2023 in collaboration with the Department of Civil Engineering. The resource person, member IWRM / Lecturer, Engr. Summera Fahmi from the Department of Civil Engineering shared her knowledge and expertise on Hydrological modelling techniques to identify the watersheds, Soil, and Water Assessment Model (SWAT) of the Gilgat, Pakistan to study, water quality, sediment and effects of climate change. The researchers from the CUI Abbottabad, PCRWR and Workshop on Hydrological Modelling Application of SWAT Clean Water and Sanitation Ensure Availability and Sustainable Management of Water and Sanitation for graduate/ undergraduate students from CUI attended the workshop. The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid, T.I., in his closing remarks emphasized on the capacity building in the adaptation of improving technologies in research and development.



Celebrations of World Water Day - 2023

In recognition of World Water Day an annual United Nations (UN) observation day held on every March 22 arranged a seminar on "Accelerating Change for Water Security in a Changing Climate: Innovative Solutions for Improved Resilience" on March 16, 2023. The aim

of the seminar is to build the attention of society on the importance of water security and sustainable management of freshwater resources, and the effects of climate change on our livelihood. This year, the theme of the World Water Day is "Accelerating Change". The speaker Dr Amjad Masood, Senior Scientist, an expert in Hydrology and Climate Change at Basin Scale in Water Resources and Glaciology Section of Global Change Impact Studies Centre (GCISC), Islamabad, Pakistan. He highlighted the issues faced by Pakistan due to climate change. The Chief Guest of the seminar was the Vice Chancellor of the University of Wah, Prof. Dr. Jameel Un Nabi. In his remarks he appreciated the importance of water as a natural resource, and it uses in our daily lives. He encouraged the youth to take an initiative to save water and avoid its wastage in daily usage for the betterment of the community. The closing remarks presented by the UNESCO Chair on Knowledge Systems for IWRM/ Director Campus. He discussed the future need of wastewater recycling that freshwater makes up only 2% of the total water on Earth, which humans use every day.



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, Engr. Summera Fahmi Khan shared her knowledge and expertise with the participants. She deliberates by analysing and predicting weather patterns affecting climate change, unravelling intricate patterns and trends within complex environmental datasets considering Pakistan's environment.

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 artwork (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. Waterwise Summit: Unveiling Solutions through Youth Voices Clean Water and Sanitation 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.

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.

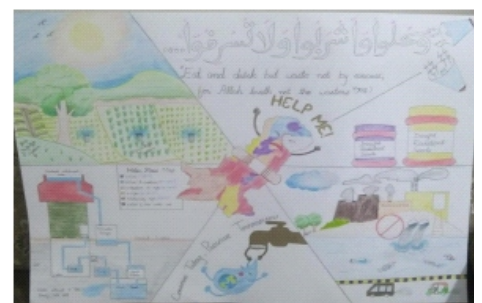
Followed by a two-day National Workshop from December 7-8, 2023 based on the theme —Transformative Pathways for Water and Food System in a Climate Resilient Pakistan. Pakistan being highly vulnerable to climate change requires sustainable development, strategic decision making for best utilization of its natural resources. The conference fostered discussions on three thematic areas, including: a. Transformation for sustainable and climate resilient solutions b. Politics, policy, and institutions- good governance and strengthening capacities c. Technologies and innovations- responding to the climate change.



National Exhibition December 7 - 8, 2023

The students of CUI under the platform of UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI 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 students. 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: a. Transformation for sustainable and climate resilient solutions b. Politics, policy, and institutions- good governance and strengthening capacities c. Technologies and innovations- responding to the climate change 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.



Energy Research Centre, COMSATS University Islamabad, situated at its beautiful Lahore campus, has taken the year 2022 as an opportunity to grow in terms of capacity building within and outside the Centre, enhance industrial and organizational networking and relations, provide consultancy and continue the tradition of research and

development in the form of funded projects, lab development and peer-reviewed impact factor journal publications. ERC continues to contribute in various sectors and intends to play its part in R&D as well as policy formulation in the context of energy and environment for Pakistan. The of Central Asia Regional Economic Cooperation (CAREC) region's energy demand is expected to grow to 30 % by 2030, including electricity as the major resources of consumption. At present Pakistan, which is a member country of CAREC, is faced with challenges of Climate Change and its impact, witnessed through devastating floods in 2022, and high-cost fuels for industrial, transport and residential applications. With the present critical economic situation of our country, the need for the inclusion of renewables was never as critical, as it is today, since these offer a clean, affordable and alternative solution to energy, especially electricity generation and efficient energy utilization in all sectors. Therefore, ERC continues to generate knowledge through R&D solutions for the research community, in the form of graduate research thesis, IF publications, and testing lab development. Moreover, ERC continues to provide consultative advice to the local industry and HEIs. ERC has contributed to develop national SDG 7 policy to translate the universal SDGs into national goals and targets for effective domestic implementation. ERC has developed a Comprehensive Campus Energy Plan to 100% clean and green energy, which focuses on renewable energy production, conservation measures, and cost savings, followed by promoting sustainability and climate change mitigation through projects that would reduce or curb greenhouse gas. On the same lines, as in previous years, in 2022, ERC signed MoU's with industries such as, EPTEck from Faisalabad, on the national scale, and on the international front, ERC played a pivotal role in an international CUI MoU with UFJF, Brazil, to collaborate with National Institute of Science and Technology in Electric Energy – INERGE. INERGE is a research institute formed by researchers from UFJF, UNIFEI, UFRJ, UFF, UFSJ and UFABC, in Brazil. The institute operates in the area of Electric Energy through the development of scientific and technological research with international quality standards. ERC strives to play its role in the enhancement of academic activities related to energy and has contributed in preparing feasibility reports, and proposals for various academic programs, including BS & MS Energy Systems Engineering,

Postgraduate Diplomas, workshops, short courses and trainings. With the global challenge of Climate Change, reducing Carbon footprint and pledge to limit global warming to 1.5° C by nations in COP27, the role of research Centres such ERC has become significant, and ERC aims to strive towards such goals in coming years through R&D

The centre will serve as a catalyst for innovation in integrated energy technologies through collaborative and interdisciplinary research. Its objective is to provide research oriented, efficient and eco-friendly solutions and professional services, related to energy issues, for socio-economic growth in the national as well as global perspective. ERC's mission is to enable capacity building of future scientific leaders, managers and engineers in the energy sector through continuing professional development activities.

CUI Lahore is making valuable contributions to the field of clean energy through education and training. By organizing technical courses, webinars, and seminars, they can help bridge the knowledge gap and foster a greater understanding of renewable energy technologies. This approach not only empowers current students but also engages working professionals, promoting a culture of continuous learning and innovation in the energy sector.

Such initiatives can significantly raise awareness about clean energy solutions, encourage sustainable practices, and potentially inspire new projects and collaborations in the community. ERC also conducted a short course. The detailed is given below: -

Energy Research Centre (ERC)
CUI Lahore Campus

Offers online short course (0.5 CPD Points) on
SOLAR PV SYSTEM DESIGN, INTEGRATION AND BUSINESS

WHY TO ATTEND THIS COURSE

Solar PV System is the fastest growing energy market in the world. This seminar will develop a deep understanding of PV system. It covers all theoretical and practical aspects of Solar PV system which are required by an engineer to install its hardware. Secondly this training will include the most used software for PV system design i.e. Helioscope. This software is developed by FOLSOM labs that includes all the features of PVsyst and adds the basic design functionality of AutoCad and SketchUp, allowing solar design engineers to do a complete design with one package.

CONTENTS

- Basics of solar PV
- Practical Implementation requirements.
- Types of inverters, panels and switch gears available in the market.
- PV system design requirements for standalone, hybrid and grid-tie system.
- Creating Preliminary project in Helioscope.
- Designing with multiple field segment obstruction and shading analysis.

WHO SHOULD ATTEND

- Research Students
- Public and private sector solar power industry managers & officers.
- Design Engineers

REGISTER NOW
<http://bit.ly/ercpcpd2>

FEE SUBMISSION

Account Title	HBL CIIT: CPD Fund
Account Number	2305-70000826-03
Fee	500 PKR (UG Students) 1000 (Professional)

Venue
Online

Date & Time
27th May
2023
10:00 am
to
02:00 pm

Instructor
Dr. Yaqoob Javed

Energy Research Centre (ERC), CUI Lahore
Offers short course (0.5 CPD Points) on

Modern Power Systems and Role of Renewable Energy

Why to attend this course

This Course introduces the Series of CPD Short Courses on Renewable Energy Technologies. The course will provide insight into new and revolutionized power systems with the integration of renewables and discuss the pros & cons of Renewable Energy integration within the grid. Performance of conventional and modernized power systems will be evaluated. Climate Change Impacts on Modern Power Systems will also be highlighted.

Contents

- Renewable power generation and clean energy technologies
- Distributed energy resources and storage
- Modern power system operation and planning
- Power system protection and automation in energy management systems
- Transmission technologies in modern power systems
- Modern power grid devices, sensors and wireless technologies
- Load management and customer participation

Who should attend

- Aspiring new entrants & professionals in the field of Renewable Energy Technologies
- Graduate Students interested in R&D work relevant to Modern Power Systems & Renewables
- Industry professionals interested in integrating renewables in their Industrial Power Systems.

Register Now
<http://bit.ly/ercpcpd2>

Fee Submission

Account Title	HBL CIIT: CPD Fund
Account Number	2305-70000826-03
Fee (PKR)	1000 (Professionals) 500 (CUI UG Students)

Venue
CUI Lahore Campus

Date & Time
Wednesday
17th May
2023
04:00 pm
to
08:00 pm

Instructors
Dr. Sobia Baig
Dr. Fawad Azeem

For Info
Email at
info.erc@cui-lahore.edu.pk

Energy Research Centre (ERC)
CUI Lahore Campus

Offers short course (0.5 CPD Points) on
WIND ENERGY AND WIND TURBINES

WHY TO ATTEND THIS COURSE

- To learn about a growing industry
- To explore career opportunities
- To understand the economic benefits of wind energy
- To contribute to a sustainable future
- Wind energy is a key component of the transition to a more sustainable energy future, and attending a short course on wind energy and wind turbines can help participants better understand how they can contribute to this important goal

CONTENTS

- Introduction to Wind Energy: Wind Energy Resource
- Wind Turbine Technology
- Wind Turbine Design
- Wind Turbine Materials
- Wind Turbine Installation and Operation
- Wind Energy Policies and Regulations
- Wind Energy and the Environment

WHO SHOULD ATTEND

- Aspiring new entrants & professionals in the field of Renewable Energy Technologies
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Venue
CUI Lahore Campus

Date & Time
Friday
9 June
2023
04:00 pm
to
08:00 pm

Instructor
Dr. Tareq Manzoor
Associate Professor
ERC

For Info
Email at
info.erc@cui-lahore.edu.pk

Strategic Partnerships - Industry Academia Linkages

On February 16, 2023, a senior-level delegation meeting was held between COMSATS University Islamabad (CUI) and the National Aerospace Science and Technology Park (NASTP) in Rawalpindi, facilitated by the Career Development Cell (CDC) at CUI. The meeting aimed to explore opportunities for enhancing Industry-Academia linkage and to create a collaborative network of academicians to address industrial challenges and strengthen research activities.

During the discussions, various collaboration modes were considered, including CUI offering consultancy services to develop scientific procedures and processes aimed at increasing productivity. Additionally, it was proposed that an Industrial Chair for NASTP would be established at CUI, further solidifying the partnership and enhancing research

capabilities



COMSATS Projects and Career Expo Fall 2023 - 21st December 2023 at EE Lawn COMSATS University Islamabad.

Under the auspices of the esteemed Rector, Dr. Sajid Qamar, today, on December 21, 2023, Dr. Sohail Asghar, the In charge of Islamabad Campus, accompanied by the Heads of Departments, toured each stall, fostering a positive exchange of energy.



"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 episodes of the competition, featuring 15 teams that passionately competed and presented their inventive concepts.



A One - Day Career Counselling Workshop - The Launch Pad

To prepare and equip the final year students with essential skills to enter professional lives after graduation. Many 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.



Career Opportunities Open for All at CUI Wah 2023

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 runners-up of final-year projects.



Seminar On Importance of Engineering Dynamics in Industries

The Department of Mechanical Engineering arranged a Seminar on "Importance of Engineering Dynamics

and its application in practical life and in industries” on January 5, 2023, under the category of department specific skills. Engr. Touqeer Iqbal from the Pakistan Ordnance Factories was the resource person of the seminar.



The seminar provided comprehensive knowledge regarding engineering dynamics and its application in industries. The resource person elaborated the targets of industries in contemporary epoch and the need for fresh engineers to develop skills to succeed in the industry.

This seminar was arranged for the students for BS (ME) third semester. DME faculty and students thanked Engr. Touqeer Iqbal for such an interactive session. Dr. Atta Ur Rehman Chairperson/Head, Department of Mechanical Engineering presented a souvenir to the resource person. The resource person also exchanged POFs Souvenir to the Head of department on behalf of Pakistan Ordnance Factories (POF).

Industrial Exposure

During the semester students from different departments visited different industrial places to integrate theoretical knowledge into practical. The practical knowledge teaches students to put theory into practice to get their selves familiar with industry.



Industrial Visit to Gadoon Textile Mill KPK

Industrial Visit – Silver Lake Foods LIMITED



Industrial Visit at National Institute of Electronics

Industrial Visit ECE Students to High Voltage and Short Circuit Lab



A Field Trip to Sanghar Water Treatment Plant

Study Trip to Pakistan Railways

Infrastructure Development

A delegation from COMSATS University Islamabad (CUI) visited FAST National University of Computer and Emerging Sciences, Islamabad Campus. The delegation comprising on Incharge Campus, 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.



Inauguration of New Academic Block –1

The Honourable 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.



COMSATS University Islamabad upholds a uniform and non-discriminatory admission policy as outlined in its Act of 2018. Clause 5 emphasizes that the university is open to all individuals, regardless of gender, religion, race, creed, class, colour, or domicile. This ensures that no one is denied access to the university's privileges based on these criteria.

To support this commitment, COMSATS utilizes various systems to track applications from under-represented groups. Platforms like the CU online system and the international admissions portal facilitate effective management and tracking of admissions, ensuring that these groups are given due consideration in the application process.

The university also adheres to a merit-based recruitment policy for students, staff, and faculty, reinforcing its dedication to inclusivity and fairness in its admissions practices.

WMS-CUI Joint Seminar on "Threat of Cybercrimes: Growing Vulnerabilities of Societies"

In a dazzling symphony of intellect and insight, the symposium on the "Threat of Cybercrimes: Growing Vulnerabilities of Societies" took centre stage at the vibrant COMSATS University Islamabad. This tech spectacle, orchestrated by the FDA in collaboration with the Federal Ombudsman, was more than an event – it was a voyage into the labyrinth of technology-induced challenges and opportunities. The event was held on November 30, 2023, at EE Auditorium Hall, COMSATS University Islamabad.

Discussion Highlights: The discussion unfolded like a thrilling plot: Madam Fauzia, the protagonist, championed children's rights, calling for media seminars as beacons of awareness. Dr. Qasim, the vigilant guardian, warned of the app permissions abyss, advocating for education on safe mobile usage. Ms. Asma, the cyber sleuth, cautioned against the alluring unknown, urging resistance to the siren call of shady links. Dr. Shabana, the wise sage, declared education as the ultimate weapon against cybercrime, with academia as its wielder. Mr. Amar Jaffri, the visionary, extolled the importance of AI and language mastery, a potent arsenal against the digital unknown. Mr. Farooq, the gatekeeper, revealed PTA's shield against unethical URLs, as he sounded the alarm on rising child abuse trends. **Conclusion:** In the final crescendo, the symposium concluded with a collective

vow to combat cyber threats. The insights gained were not mere notes; they were the anthem of a resilient Pakistan navigating the digital storm. The event proved that in the face of evolving challenges, collaboration and awareness will be the guiding stars in our digital constellation. The symposium wasn't just an event; it was an ode to empowerment in the digital age



Basic Social Media Tools/Beyond the #Hashtag June 8, 2023

Faculty Development Academy in collaboration with Registrar office organized a 1 – day training on 'Basic Social Media Tools/Beyond the #Hashtag' on June 8, 2023. The workshop was arranged in SSBC and there were 31 participants from different departments of CUI Islamabad. This workshop was designed to cover page management and content management of Facebook and Instagram. Dr. Omer and Ms. Hania from Management Sciences department were the resource persons for this training. The program started at 1100 AM and lasted for 02 hours. This workshop was the first of its kind which was arranged to bring all the members on one platform so that the image of CUI should be reflected in a concordant and unanimous way. Dr. Omer started the workshop by briefly introducing himself and his co-trainer, Ms. Hania. Firstly, they both clarified the idea of having this topic for training. The basic purpose of this workshop was to bring harmony in the marketing pages and campaigns of all departments so that they augment each other via web pages of Islamabad campus and boost the viewership. Ms Hania elaborated about the communication loopholes which are lying in each of our departments.



The basic idea is that if the communication with our clients is weak, it will cause adverse affects on our admissions and thus leading to a drastic decline in enrolments.

The trainer then highlighted the significance of 'strategy' for basic social media tools. Currently most of the departments are running their own marketing pages, but there is no uniformity or consistency. Moreover, there are many pages designed with the same names e.g. CUI and the searcher are not sure about the authenticity of the pages. This problem must be sorted out in order to enhance the profile and efficiency of CUI campuses. Another issue which we are facing is that the departments have made their official pages with personal accounts. Once a member leaves the organization, that page also stops working.

Sports And Wellness Facilities

Sports are the vital part of any educational process. The campus has Cricket, Football, badminton, and basketball grounds for both male and female students. Also, the gym and indoor game centres are open to students for wellness, recreational and sports activities. The indoor gym is equipped with state-of-the-art exercise machines and highly professional instructors, facilitating all who come seeking physical and mental fitness. Among all the CUI campuses only Islamabad campus has the cricket ground of international standard and Islamabad campus has the Honor to organize 1st Inter campuses T-20 Cricket tournament in March 2012. In 2013 Islamabad campus extended its outdoor sports facilities by establishing Football ground, multipurpose court for Volleyball and Tennis.



COMSATS University Islamabad has a Counselling & Wellness Centre (CWC) that offers consultative services for psychological and emotional issues faced by students and staff. The CWC provides essential support and guidance to help individuals address their mental health concerns.

In addition, the university has a Career

Development Centre (CDC) that provides impartial and confidential advice to all visitors, including those with disabilities. The CDC aims to assist students and alumni in making informed career decisions by offering a range of resources and services to support their career development.

These initiatives reflect the university's commitment to the well-being and professional growth of its community member.

Quality teaching methodologies are becoming increasingly vital in higher education, particularly in Pakistan, where the effectiveness of teaching directly impacts students' ability to apply their knowledge to real-world challenges. Passionate teachers who engage in continuous learning contribute significantly to this process.

Recognizing the importance of high-quality education, COMSATS University Islamabad established the Faculty Development Program (FDP) in 2004, which evolved into the Faculty Development Academy (FDA) in 2011. The FDA aims to promote quality teaching methodologies and empower educators to become catalysts for societal change.

The Academy provides both pre-service and in-service training for faculty and their support staff. It organizes training sessions, workshops, and seminars led by experts tailored to the specific needs of participants. These initiatives create an engaging learning environment that enhances morale and fosters a desire for ongoing education.

The FDA has received positive feedback regarding the quality of its training, course content, and logistics, leading to requests for repeated sessions. Operating under the motto "Enabling Decisions for Tomorrow," the FDA continues to play a crucial role in enhancing the skills and knowledge of educational professionals at COMSATS and beyond.



The seminar titled "Climate-Induced Drought Patterns in Pakistan: Variability, Trends, and Global Teleconnections" was presented by Dr. Muhammad Latif,

Assistant Professor, Department of Meteorology, CUI, Islamabad, on October 25, 2023. The event was jointly organized by Quaid-i-Azam University (QAU), the Chinese Academy of Sciences (CAS), the Higher Education Commission of Pakistan (HEC), the China-Pakistan Joint Research Center on Earth Sciences (CPJRC), and the Pakistan Academy of Sciences at QAU.

It provided participants with valuable insights into the complex dynamics of droughts and an understanding of how climate change drives drought variability in Pakistan, focusing on the influence of global climate patterns such as El Niño and La Niña. By examining long-term trends and large-scale atmospheric teleconnection patterns, the seminar highlighted the importance of monitoring and predicting drought conditions to enhance climate resilience. This aligns with SDG 13: Climate Action, as it equips participants with the knowledge and tools to assess climate risks, mitigate drought impacts, and support disaster risk reduction efforts. It also emphasized collaborative planning and informed decision-making to strengthen adaptation strategies for climate-induced challenges.



The seminar titled “South Asian Summer Monsoon and Climate Change Impacts in Pakistan: Insights from 2022” was presented by Dr. Muhammad Latif, Assistant Professor, Department of Meteorology, CUI, Islamabad, on June 9, 2023. The seminar was organized by the Department of Meteorology, CUI, Islamabad Campus.

It significantly contributes to this goal through its emphasis on environmental education. By raising awareness of the South Asian summer monsoon's behaviour and its changing patterns due to climate change, the seminar serves as an important educational effort. It informs local communities and policymakers about the associated risks and impacts, thereby facilitating the development of effective adaptation strategies. Furthermore, if the university collaborates with NGOs and local government agencies (e.g., PMD) focused on climate adaptation and disaster management, the seminar can act as a

platform for sharing valuable findings. This integration of scientific insights into community-level climate action programs enhances collaborative efforts, ultimately promoting resilience and sustainability in the face of climate challenges in Pakistan. While the seminar does not directly link to SDG 13.2.1: Low-carbon energy tracking, it emphasizes the need for climate-resilient energy systems in Pakistan.



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. 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 and organizing it successfully to strengthen the scientific collaboration between the British Council, Higher Education Institutions of Pakistan and UK.



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.



The Tree Plantation Drive 2023 was inaugurated at COMSATS University Islamabad (CUI), by the Director Campus, Prof. Dr. Muhammad Abid, T.I., on June 27, 2023. The Director Campus, Head of Departments/Sections, Faculty members, Officers, and Staff members participated and planted Silver Oaks trees beside the Football Ground walls.

The aim of the plantation drive was to keep the Campus Green & Clean, reduce air pollution, mitigate climate change, and fight against global warming.



The seminar titled “Research and Career Opportunities in Meteorology and Climate Science in Pakistan” was presented by Dr. Muhammad Latif, Assistant Professor, Department of Meteorology, CUI, Islamabad, on January 6, 2023. The seminar was organized by the Department of Meteorology, CUI, Islamabad Campus.

It provides learners with essential insights into meteorology and climate science in Pakistan. By focusing on research and career opportunities, the seminar directly supports promoting higher education in climate-related disciplines and enhancing student's skills in this critical area. Furthermore, it contributes to SDG 13 by promoting an understanding of climate change impacts and adaptation strategies among participants. The seminar also encourages collaboration between educational institutions and local NGOs, facilitating the integration of scientific knowledge into community-level initiatives. Overall, this event serves as a vital platform for empowering future professionals to tackle climate challenges and pursue sustainable solutions in Pakistan.



A training workshop titled “Geospatial Techniques to Understand the Urban Architecture and Planning” was

conducted by Dr. Muhammad Rizwan Mughal, Assistant Professor, Department of Meteorology, CUI, Islamabad, on December 27, 2023. The workshop was organized by the Department of Meteorology, CUI, Islamabad Campus. It encompassed both theoretical instruction and hands-on training exercises, focusing on building capacity to foster understanding of the latest tools and methods for analyzing and visualizing urban data using geospatial technologies. Moreover, the workshop highlighted how geospatial technology can support sustainable and resilient urban development by addressing complex challenges such as land use, transportation, and land control.



The International Water Management Institute (IWMI) established a “Water, Environment & Agriculture Societies' Consortium” and held its second meeting on March 14, 2023. The meeting brought together 21 representatives from 11 universities across Punjab province and the federal capital. Dr. Umair Bin Nisar, Assistant Professor in the Department of Meteorology at COMSATS University Islamabad, represented CUI, starting the session with a brief introduction to the university. He delivered a presentation outlining ongoing initiatives and provided a comprehensive overview of key focus areas.

Rel This meeting addresses SDG 13: Climate Action .The projects discussed at

the IWMI meeting illustrate the critical role universities can play in advancing multiple SDGs. The biogas project aligns with SDG 13 (Climate Action) by reducing greenhouse gas emissions and promoting renewable energy. Additionally, the groundwater exploration projects in the twin cities and mountainous regions contribute to SDG 6 (Clean Water and Sanitation) by ensuring sustainable water management and protecting freshwater resources. These initiatives also support SDG 15 (Life on Land) by addressing land degradation and desertification, which are closely linked to water scarcity. Through collaboration and knowledge sharing, universities can significantly impact the achievement of these interconnected SDGs and promote sustainable development efforts.



Dr. Muhammad Imran Shahzad, Head/Chairman of the Department of Meteorology, CUI, presented his research on coastal remote sensing at the “2023 International Conference on Climate Change and Disaster Risk” held in Islamabad from October 25-27, 2023. The conference aimed to explore the impact of climate change on natural disasters, reduce disaster risk, and raise public awareness about disaster prevention and mitigation. It was organized by the China-Pakistan Joint Research Center on Earth Sciences (CPJRC) in collaboration with the International Association for Hydro-Environment Engineering and Research (IAHR), the Pakistan Academy of Sciences (PAS), and Quaid-i-Azam University (QAU).

This conference addresses SDG 13: Climate Action .The discussions on climate change and its impact on natural disasters directly support efforts to inform and collaborate with local governments for disaster risk reduction and climate adaptation strategies. By raising public awareness, the conference encourages community engagement in sustainable practices that enhance urban resilience, thereby contributing to SDG 13. Moreover, the emphasis on coastal remote sensing promotes the sustainable management of marine ecosystems and raises awareness about

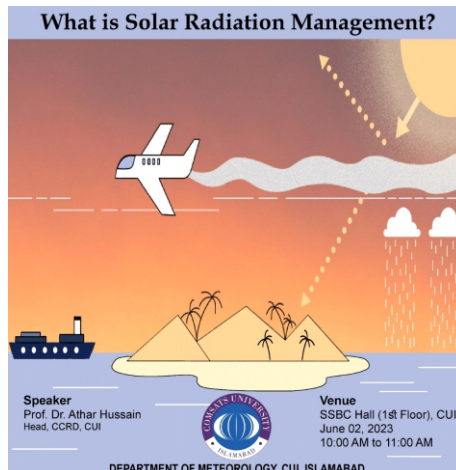
preserving aquatic resources, aligning with SDG 13's goal of maintaining healthy oceans and marine environments. Ultimately, by sharing research findings and strategies, the conference contributes to global efforts to combat climate change and its associated impacts, which is central to achieving SDG 13. This collective engagement is essential for developing effective policies to mitigate the adverse effects of climate change, thereby contributing to the achievement of these SDGs.



Prof. Dr. Athar Hussain, Principal Investigator of the project titled “Impact of Solar Radiation Management and Climate Change on Malaria Dynamics in South Asia”, funded by the UK-based The DEGREES Initiative, aims to better understand how Solar Radiation Management (SRM) could affect the redistribution of malaria in South Asia, including Iran, Afghanistan, India, Nepal, Bangladesh, and Bhutan, from February 2023 to February 2024. This study marks the first attempt to assess the impacts of SRM on a vector-borne disease in the region. By extending Prof. Athar's research group's efforts, the project seeks to establish a network of professionally trained local experts in the field of regional climate change and health in Pakistan. The results will be disseminated at the district level—the fundamental administrative tier for the healthcare system in Pakistan. The project aims to promote engagement with a diverse set of national stakeholders, ensuring that relevant climate-health nexus information is made available to policymakers, thereby helping to bridge the communications gap regarding SRM.

The seminar directly addresses SDG 13 by exploring innovative strategies for mitigating climate change impacts. By discussing SRM techniques, Prof. Dr. Athar Hussain provided participants with insights into potential climate intervention methods that could help manage global warming. The seminar emphasized the importance of understanding the risks and benefits associated with SRM, promoting informed discussions on climate adaptation strategies. This aligns with

global efforts to enhance resilience against climate change and improve public understanding of climate-related issues, thereby contributing to sustainable climate action.



The Geospatial Science Society, Department of Meteorology has conducted a Climate Change Awareness Walk, on 20th May 2023 under Green Youth Movement (GYM) club for Climate Change awareness. The aim of the event was to draw awareness to the adverse impact of climate change to Pakistan. Many students and Faculty & staff of COMSATS participate in this event.

Relevance to SDG: This seminar addresses SDG 13: Climate Action (Indicators 13.3.1). This event emphasizes the urgent need to combat climate change and its impacts. By organizing a Climate Change Awareness Walk, the society aimed to educate participants about the adverse effects of climate change on Pakistan, particularly in a region vulnerable to climatic shifts. Engaging students, faculty, and staff cultivates a sense of community responsibility and empowers individuals to act. Raising awareness is a crucial step in mobilizing collective efforts to address climate change, encouraging sustainable practices, and contributing to national and global initiatives aimed at achieving climate resilience.

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.



Ocean Connects the World

To promote the exploration and protection of the ocean and boost the development of marine engineering, jointly organized by Mechanical and Vehicle Engineering Division of Chinese Academy of Engineering, Science and Technology Committee of China State Shipbuilding Corporation Limited, and jointly organized by Systems Engineering Institute of China State Shipbuilding Corporation Limited, China Ship Research and Development Academy, Pilot National Laboratory for Marine Science and Technology (Qingdao), and Harbin Engineering University, the International Conference on Marine Equipment & Technology and Sustainable Development (ICMETSD), was organized in Beijing, China on March 31 and April 1, 2023. During the conference, the Presidents' Forum was organized to discuss and exchange views on the cultivation of marine talents and the future development of ocean, innovation and international cooperation on ocean science and technology, and the development trend of cutting-edge marine science and technology, in order to strengthen exchange and cooperation among China and foreign universities in the field of shipbuilding and ocean, comprehensively improve the competency and level of universities in serving the global ocean governance, and provide intellectual and technological support for global ocean governance. During his talk he mentioned that

Pakistan is located along the Arabian Sea and offers great potential for marine-based activities in Education and Technology for shipping, fisheries, aquaculture & tourism. Hence development of sustainable marine equipment and technology can play a significant role in unlocking the potential of Pakistan's marine sector while ensuring its long-term viability. Above mentioned developments can not be ensured to be sustainable without Capacity building in Marine Engineering and Sciences degrees at BS, MS and PhD levels and through Specialized Courses.



Keynote address on “Need of Computer Aided Engineering for Real World Engineering Problems” with focus on the integrated water and sediment flow simulations

The keynote on “Need of Computer Aided Engineering for Real World Engineering Problems” with focus on the integrated water and sediment flow simulations was delivered by the Director Campus/ UNESCO Chair on Knowledge Systems for Integrated Water Resources Management in 1 st International Multidisciplinary Conference on Emerging Trends in Engineering Technology 2023 held from May 9 – 11, 2023. In his address he emphasized on energy efficient building designs to target the SDG 11 —Sustainable Cities and Communities for safe human settlements.



He focused on the integrated water and sediment flow simulations through tunnels and reservoirs for life predictions, optimum renewable energy systems, industrial trusses and lightweight hybrid structure, flood and drought modeling

using RS and GIS tools and others with respect to Big Data, AI and Machine Learning and others to enable the role of water management resources in interlinked SDG 6 and 13 for Clean Water and Sanitation and Climate Action

Workshop on Cyber-Harassment: "Prevention and Laws" Event Report

Harassment, held on 21st July 2023. The workshop, organized by Dr. Muneeba Shakil (Assistant Professor, Clinical Psychologist, MS Clinical Psychology Program Coordinator) at Department of Humanities, COMSATS University Islamabad, Lahore Campus, took place from 11:00 am to 1:00 pm, with an esteemed guest speaker, Ms. Rukhsana Tauheed, Assistant Director of the FIA Cybercrime Circle in Lahore.

Event Highlights

The workshop addressed the pressing issue of cyber-harassment and the significance of preventive measures and legal frameworks to combat this growing concern in today's digital world. Ms. Rukhsana Tauheed's extensive experience and expertise in investigating cybercrime cases, particularly cyber-harassment, provided valuable insights to all attendees.

The workshop covered a range of crucial topics, including:

Understanding Cyber-Harassment: Attendees gained insights into the various forms and manifestations of cyber-harassment, such as cyberbullying and online stalking.

Impact and Consequences: The workshop delved into the psychological and emotional impact of cyber-harassment on victims and the broader society.

Prevention Strategies: Participants learned about practical steps that individuals and organizations can take to safeguard against cyber-harassment incidents.

Legal Aspects: The legal framework surrounding cyber-harassment, including relevant cybercrime laws and their application to different scenarios, was discussed in detail.

Reporting and Seeking Help: The workshop educated attendees about the appropriate channels for reporting cyber-harassment incidents and seeking assistance from law enforcement agencies.

Audience Profile

The workshop welcomed a diverse group of participants, including students, educators, parents, and candidates interested in admission in COMSATS. Their active engagement and enthusiasm contributed to the success of the event.



ICPB 2023

We are pleased to invite you to a multidisciplinary “International Conference on Peace Building: Policies, Research, and Strategies” on March 15-16, 2023. The conference is primarily being organized to invite international and national 'experts, social scientists, researchers, and policy makers at the platform of COMSATS University Islamabad, Lahore campus to share their views and research, to plan strategies and policies for promotion of peace. This conference is designed to promote peace building by encouraging multi-disciplinary research, education and training from social sciences disciplines including psychology, sociology, political science, international relations, history, religious studies, language, literature, applied linguistics, law, media and communication etc. This would address issues on peace and tolerance and violent and non-violent conflicts resolution; and the experts will brainstorm ideas about how to promote peace in society and prevent violence and destructive conflicts.



Faculty Development Academy is organising a Seminar on “Threats of Cybercrime: Growing Vulnerabilities of Societies” on Thursday, 30 November 2023.

FDA conducted a 3-day workshop for the

Staff College Quetta on 'Development of MCQs Based System'. The participants were illuminated with knowledge and were showed the CUI Islamabad campus. They also had the privilege to visit the Nano-labs of CUI

FDA COMSATS is organizing a seminar on "Innovation & Entrepreneurship for Startups". It is specifically arranged for the faculty and students of CUI Islamabad Campus. Be a part of it and benefit yourself.

Seminar on Innovation & Entrepreneurship for Startups May 12, 2023 (10:00 am to 12:00 noon)

MEET OUR TRAINER

Dr. Mario B. Curatolo is an accomplished management training consultant with an overall international experience of 25 years in Europe, South East Asia and the Middle East where he consolidated a track record in the development and implementation of organizational change programmes. He has an all-round British education with a joint Honours BA in Economics and Sociology (Keele University), an MSc in European Economic Studies (Exeter University) and a PhD in Economics (University of Wales Aberystwyth). He is the founder and CEO of his own firm MBC Management Business Consultants. MBC is a Swiss-based training consultancy focused on improving company executives' performance through training actions in the areas of Leadership Development, Coaching, Organizational Restructuring, Strategic Planning and Change and Project Management. Mario is a multi-cultural (he has lived and worked in Spain, the UK, Italy, Switzerland, Thailand, Oman, Pakistan, India the US and Venezuela) and a multi-lingual (he speaks Italian, Spanish and English) training consultant committed to help CEOs, Executives, start-up managers and Businesspeople understand how to work effectively in a global cultural business context.

Dr. Mario B. Curatolo
C.E.O of Management Business Consultants (MBC)
Switzerland



FDA CUI

One Day Symposium on Emerging Trends in Language Research: Interdisciplinary Approaches to Theoretical and Applied Linguistics

Department of Humanities at COMSATS University Islamabad, Lahore Campus organized a One Day Symposium on Emerging Trends in Language Research: Interdisciplinary Approaches to Theoretical and Applied Linguistics. Dr. Sara Khan (Lecturer) convened and materialized the concept of the event and Dr. Saima Chatta, Mr. Muhammad Asif Ikram, Ms. Maryam Jehangir, and Ms. Huma Ejaz provided support in media coverage, refreshments, moderating of panel sessions and opening and closing of the event. The event was attended by the students of BS and MS English Language and Literature. Ms. Shazia Aziz (Assistant Professor), Mr. Samar Kamal Fazli (Assistant Professor), and Dr. Aasia Nusrat (Associate Professor) also graced the event with their worthy participation. The opening and closing of the symposium were graced with motivating and worthy remarks by Dr. Musferah Mehfooz, Head of the Department and Dr. Shameem Fatima, Chairperson, Department of Humanities, respectively. This symposium turned out to be a cohesive collection for linguistic research that falls outside the traditional bounds of sociolinguistics and applied linguistics. With the understanding that theoretical stances and ideas about human behavior can and do cross over disciplinary boundaries, the panel sessions in the symposium will concentrate on the fact that linguistics and language research sit at the

intersection of humanities and the social sciences. Each of the panel session aims to present new connections and fresh viewpoints to contribute to the interdisciplinary inquiry into the nature of human language. The panel speakers and session chairs that presented their views on the theme of the event were as follows:

1. Iram Amjad (Assistant Professor, English at Higher Education Department, Lahore)
2. Tabassum Saba (Assistant Professor, Department of English Language and Literature, University of Lahore)
3. Khalid Ahmed (Associate Professor, Department of English, University of Central Punjab)
4. Muhammad Islam (Assistant Professor, Department of English Language Teaching & Linguistics, University of Punjab)
5. Muhammad Umer Azim (Assistant Professor, English at Higher Education Department, Lahore)
6. Zafar Iqbal Bhatti (Associate Professor, Department of English, Minhaj University, Lahore Campus)

The Symposium contributed to the better understanding of languages (individually), of language (as a collective human ability), and of their speakers and helped to better understand how society functions and how to improve it, and this is the domain of study of linguistics. The event highlighted that the foundations of linguistics begin with descriptions of the sounds and structures of many languages, from languages of global exchange spoken by millions to local dialects spoken in remote corners of the world. Finally, the symposium helped the students of BS and MS English Language and Literature connect different academic disciplines to the study of language and to the everyday use of the English language.



E-commerce Workshop Conducted By COMSATS IT Center

COMSATS IT Centre organized a 3-4 hours Workshop on Ecommerce on Thursday, January 5, 2023. A total of 38-42 participants registered for this workshop. Dr. Maroof Shah (Director COMSATS Abbottabad) distributed certificates among all participants.

Workshop Contents

What is Ecommerce?

Types of Ecommerce

Popular Ecommerce Websites

What is Drop shipping & Print on Demand

Print on Demand websites & examples

Overview of Daraz.pk, Shopify, WordPress-WooCommerce

Designing Product Images using Canva

Setup Ecommerce Website using Shopify



Creative Seminar on the Evolution and Scope of Animation

A seminar on Creative Seminar on the Evolution and Scope of Animation was organized by Abbott Wolf Studios in collaboration with the Coordination Office and the Computer Science Department CUI, Abbottabad Campus was held on 10th June 2023. The event aimed to provide valuable insights into the world of animation and its significance in various industries.

The seminar commenced promptly at 11:30 a.m. with an introduction by the event coordinator, highlighting the purpose and objectives of the seminar. The New Auditorium, with its spacious seating capacity, was an ideal venue for hosting such an event. The arrangement of seating, stage, and audio-visual equipment ensured a conducive environment for both the speakers and the audience. The lineup of topics and speakers for the seminar was carefully curated to cover different aspects of animation and showcase the expertise of

renowned professionals in the field. The seminar topics and speakers were as follows:

Starting Speaker: "Scope of Animation in Freelancing" by Aitzaz Khan, Influencer, CEO at TechKor: Aitzaz Khan, a respected influencer and CEO at TechKor, initiated the seminar by discussing the vast opportunities available in animation freelancing. He shared his experiences and provided valuable insights on how participants could leverage their skills to establish a successful career path in freelancing.

Second Speaker: "Overseas Career Opportunities in Animation" by Wajahat Awan, Founder at DeAxprou: Wajahat Awan, the visionary founder of DeAxprou, took the stage next to inspire the attendees with invaluable insights into global career prospects in animation. He highlighted the potential for international opportunities and shared success stories to motivate participants to explore new avenues for professional growth. Third Speaker: "Animation in the Media & Entertainment Industry" by Dr. Raja Kashif Janjua, Media Consultant, Anchor, and Analyst: Dr. Raja Kashif Janjua, a renowned media consultant, anchor, and analyst, captivated the audience with his in-depth knowledge of animation in the media and entertainment industry. He shed light on the role of animation in shaping the media landscape, emphasizing its relevance in captivating audiences and enhancing storytelling.

Fourth Speaker: "The Evolution of Animation" by Prof. Zafar Iqbal, Professor, and HoD at Pak-Austria Fachhochschule: Prof. Zafar Iqbal, a distinguished professor and Head of the Department at Pak-Austria Fachhochschule, took the participants on an intriguing journey through the remarkable evolution of animation. He showcased how animation has transformed over the years and its impact on various industries, ranging from film and television to advertising and education. Fifth Speaker: "Animation Process & Q&A for Upcoming Course" by Umar Jalal, Animator, Founder at Abbottwolf Studios: Umar Jalal, an accomplished animator and the founder of Abbott wolf Studios, concluded the seminar by guiding participants through the animation process. He shared his expertise, provided practical insights, and addressed the audience's queries regarding an upcoming course, ensuring a comprehensive understanding of the animation field.

The seminar concluded with an engaging ending ceremony, during which the speakers were honoured for their valuable contributions. Shields were

presented to each speaker by COMSATS University Islamabad Abbottabad Campus as a token of appreciation, recognizing their expertise and dedication to the field of animation. Furthermore, a representative from Abbott Wolf Studios expressed gratitude and presented souvenirs to Dr. Mazhar Ali, Head of the Computer Science Department, and Mr. Ibrahim Ahmad, Head of the Coordination Office. This gesture acknowledged their pivotal role in supporting the event and ensuring its successful organization. The Creative Seminar on the Evolution and Scope of Animation was a resounding success, providing students and participants with a comprehensive understanding of animation and its impact on various industries. The lineup of speakers, carefully chosen topics, and the collaboration between Abbott Wolf Studios, the Coordination Office, and the Computer Science Department played vital roles in the success of the event.

The seminar not only enriched participants' knowledge but also created an environment for networking and fostering connections between industry professionals and aspiring animators. Attendees expressed their appreciation for the opportunity to learn from experts in the field and left the seminar inspired and motivated to pursue their passions in animation. We extend our heartfelt gratitude to all the speakers for their valuable insights, the participants for their active engagement, and the organizers for their meticulous planning and seamless execution of the seminar. The success of this event set a precedent for future endeavours in the field of animation at COMSATS University Islamabad Abbottabad Campus.



PUBLICATIONS

Publications Title	First Author	Publisher	Impact Factor	Weblink
Artificial Intelligence and Stochastic Optimization Algorithms for the Chaotic datasets	F. Wang, A. Sohail, W. K. Wong, Q. U. Azim, S. Farwa, M. Sajad	World Scientific	3.665	https://doi.org/10.1142/S0218348X22401752
Trade potential of Pakistan with the South Asian Countries: A gravity model approach.	Shah Masood Kakar, Nabila Khurshid, Maqsood Haider	National Cheng Kung University	4	NULL

Total Publications :02

Overall **3412 research publications** were published by COMSATS faculty in all seventeen SDGs most of them are published in High Impact Factor Journals COMSATS faculty always strive for excellence and quality work and is leaving a positive impact on the society in general and to globe at large , the summary of the research publication is mentioned below:

Summary of Publications relevant to Sustainable Development Goals

SDG Name	Total Publications
No Poverty (SDG 1)	12
Zero Hunger (SDG 2)	107
Good Health and Wellbeing (SDG 3)	1025
Quality Education (SDG 4)	341
Gender Equality (SDG 5)	15
Clean Water and Sanitation (SDG 6)	169
Affordable and Clean Energy (SDG 7)	341
Decent Work and Economic Growth (SDG 8)	95
Industry, Innovation and Infrastructure (SDG 9)	915
Reduced Inequalities (SDG 10)	11
Sustainable Cities and Communities (SDG 11)	72
Responsible Consumption and production (SDG 12)	116
Climate Action (SDG 13)	114
Life Below Water (SDG 14)	1
Life on Land (SDG 15)	53
Peace, Justice and Strong Institutions (SDG 16)	14
Partnership for the Goals (SDG 17)	11
Total	3412

Summary of Research Project in Different SDGs

Relevant SDGs	Cost of Projects in Millions
SDG 1: No Poverty	8.3
SDG 3: Good Health and Well-being.	10.13
SDG 9: Industry, Innovation, and Infrastructure	8.11
SDG 2: Zero Hunger	8.7
SDG 12: Responsible Consumption and Production	10.73
SDG 15: Life on Land	40.17
SDG 13: Climate Action	22.77
SDG 4: Quality Education	1.98
SDG 11: Sustainable Cities and Communities	1
SDG 7: Affordable and Clean Energy	4.58
SDG 5: Gender Equality	9.7
SDG 8: Decent Work and Economic Growth	0.15
SDG 14: Life Below Water	0.6
Total	126.92



SUSTAINABLE DEVELOPMENT GOALS

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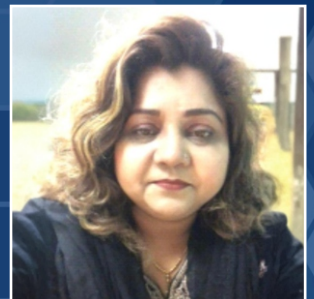
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Mehreen Bibi
(Data Collection &
Reports Preparation)



Shomaila Sadaf
(Publications Data
Collection)



Abdul Raqeeb
(Reports Designing)