

COMSATS University Islamabad (CUI)

25th Meeting of COMSATS Coordinating Council 10th September 2024

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On Behalf of: Prof. Dr. Sajid Qamar Rector COMSATS University Islamabad



CUI's Vision & Mission





CUI

Vision

The COMSATS University Islamabad envisions assuming a truly national character for itself in the years to come. It envisions having presence in all provinces of the country. It sees for itself a position among the top five (5) universities in the country; among top 100 universities in the developing countries and top 300, 200, 100 universities in the world respectively in the 5, 10 and 15years' time horizon.



Mission



Teaching & Learning

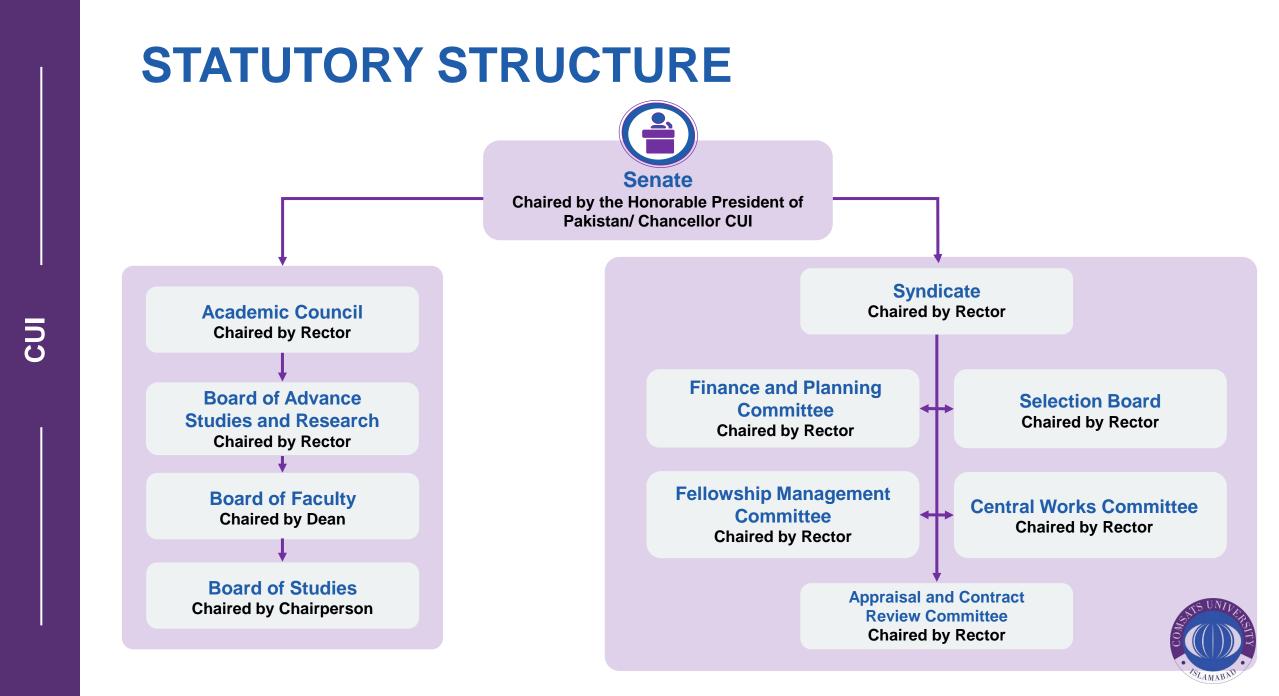


Research, Innovation & Commercialization



Outreach and Public Service







Milestones	2000	2024
Campuses	1	7
Total Faculty	15	1,940 +
PhD Faculty		1,100 + (Highest in Pakistan)
Academic Programs	3	110 +
Student Enrolment	277	34,390 +
International Students		210 +
Alumni		107,129 +
Research Centers		6
Research Publications		27,040+
Patents Granted / Licensed		44/3

CUI

ACADEMIC DISTRIBUTION

6 FACULTIES

22 DEPARTMENTS



Faculty of Architecture & Design

Architecture, and Art & Design



Faculty of Engineering

 Chemical, Civil, Mechanical, and Electrical & Computer



Faculty of Business Administration

 Development Studies, Economics, Humanities, and Management Sciences



Faculty of Information Science & Technology

 Computer Science, and Health Informatics



Faculty of Science

 Chemistry, Earth Sciences, Mathematics, Meteorology, Physics, and Statistics

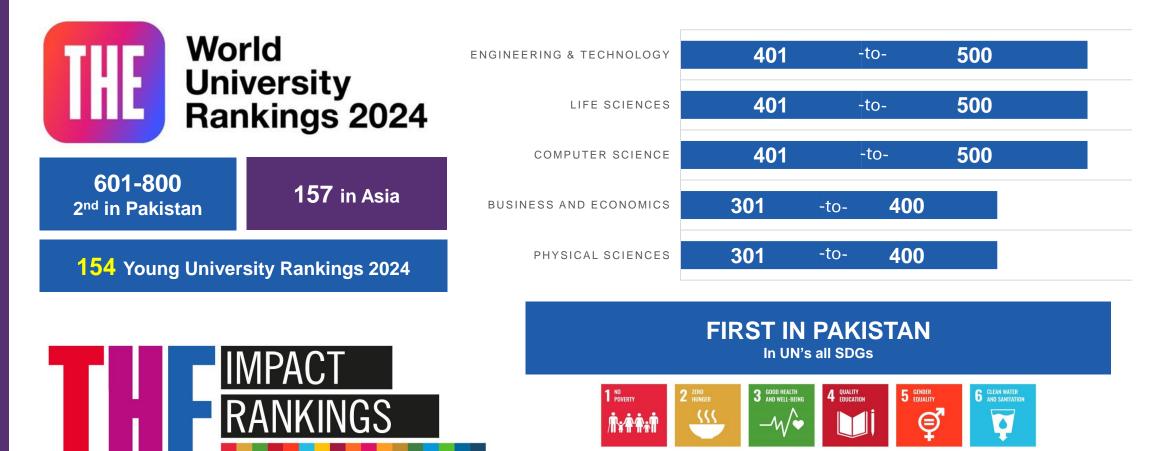


Faculty of Health Sciences

 Biosciences, Environmental Sciences, Pharmacy, and Biotechnology



INTERNATIONAL RANKINGS



B DECENT WORK AND ECONOMIC GROWTH

M

14 LIFE BELOW WATER

(0)

13 CLIMATE ACTION

INDUSTRY, INNOVATION

15 LIFE ON LAND 10 REDUCED INEQUALITIES

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16 PEACE, JUSTICE AND STRONG INSTITUTIONS

201-300 Impact Ranking 2023

CUI

Stama B

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

CO

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AND COMMUNITI

17 PARTNERSHIPS FOR THE GOALS

B

RESEARCH CENTERS

CUI



Medical Image Processing Research Group

Islamabad Campus

Interdisciplinary Research Center for Biomedical Materials

Lahore Campus





Interdisciplinary Research Center for Biomedical Materials Lahore Campus

DENTAL MATERIALS



SOFT TISSUE ENGG.

SENSORS & BIOSENSORS



BONE REPAIR & REGEN.



Selected Examples in the Aforementioned Domains:

- Digital Orthopaedics and Dentistry (3D Printing, Machining of Biomedical Devices)
- Halal Bone Regenerative Materials for Improved Tissue Healing
- Advanced Characterization (Micro CT, FE-SEM, XRD, FTIR, Confocal Microscopy etc.)
- Disease diagnostics and monitoring (Alzheimer's, Dengue, Cancer)
- Skin and Wound repair (diabetic foot ulcers, chronic wounds, burns)





Interdisciplinary Research Center for Biomedical Materials Lahore Campus

TECHNOLOGY COMMERCIALIZATION



40 Patents Rs 60m Inflows Rs. 286 m Inflows till 2028

03 Licensed Tech.



Саппепта

ADVANCED WOUND CARE Licensing Partner Australia

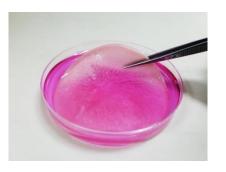


Cotton Craft Pvt Ltd Licensing Partner Pakistan



Licensing Partner Pakistan









Medical Image Processing Research Group (MIPRG)

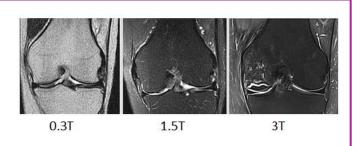
* Established in 2014

MRI Scanning (Conventional)

- Limited access to expensive high-field MRI scanners
- High operational & infrastructure costs for high-field MRI scanners
- Predominance of low field MRI scanners (0.25T, 0.35T, 1.5T)
- Inadequate image resolution impacting diagnostic accuracy

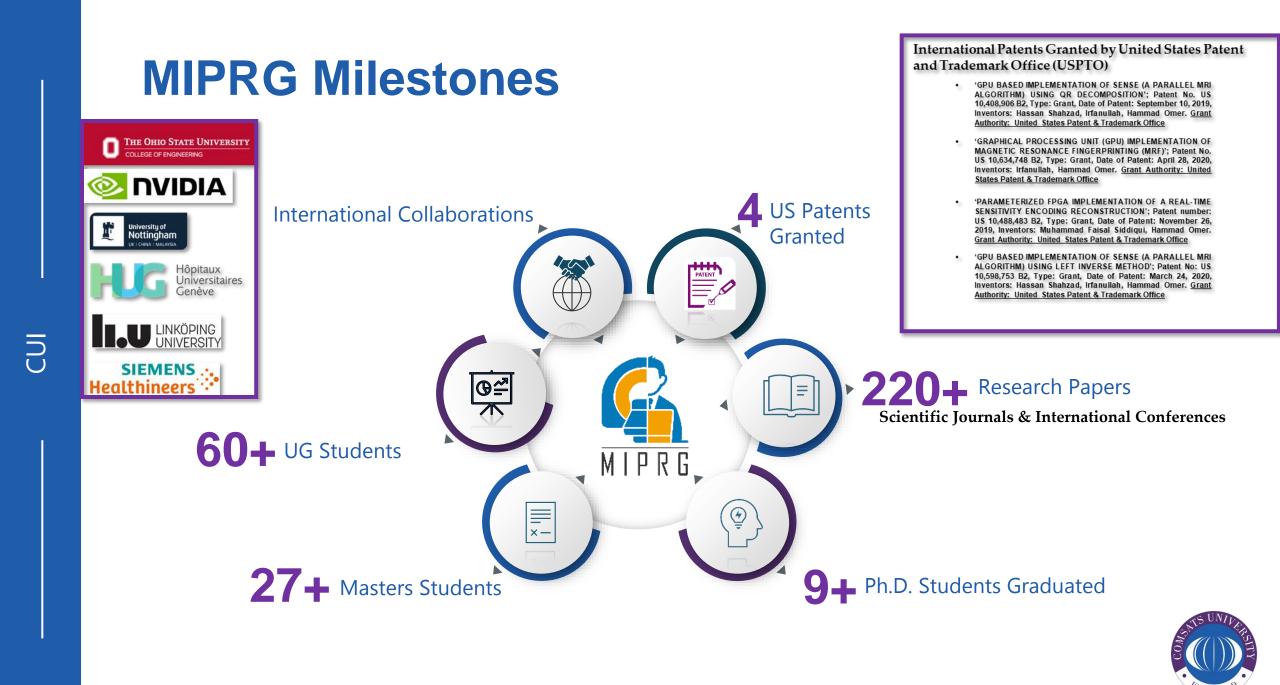
MIPRG Research Areas

- Parallel Imaging and Compressed Sensing
- ASIC (Chip Design)
- Parallel Computing
- Al in image reconstruction
- Magnetic Resonance Fingerprinting (MRF)



Research Benefits

- 1. Cost effective (Low Cost) solution for patients
- 2. Better diagnosis and treatment of diseases
- 3. A better solution in case of electricity and power shortage





China Study Centre Islamabad Campus



Focus Areas

- Joint Research and Collaborations with Pakistan Study Centers and Universities & Institutions in China
- Placement of Pakistani Students in Institutes of Higher Learning in China
- Promotion of Student & People to People Contacts between Pakistan and China





Engagements with COMSATS Member Countries 1/4

Scholarships for COMSATS Member Countries

- Offered 100 Scholarships for MS & PhD
- ✤ 40 Scholarships Utilized by:
 - China, Gambia, Jordan, Nigeria, Palestine, Sudan & Yemen
- Admission for Spring 2025 & Fall 2025 are Open
- This Scholarship covers the fee for the entire MS and PhD programs, including:
 - i. One-time charges (Admission, Graduation & security) \$550
 - ii. Per semester fee (Tuition, Registration & lab charges) \$1600

Engagements with COMSATS Member Countries 2/4



Ongoing Academic Collaborations

CUI

Collaborating Partners	Commencement Date
General Sir John Kotelawala Defense University, Sri Lanka	September 2021
Industrial Technology Institute, Sri Lanka	March 2, 2021
Harbin Engineering University, China	November 2, 2020
D-8 International University, Iran	February 26,2024
Usak University, Turkiye	March 1,2024
Xidian University (XDU), China	June 11, 2024

Engagements with COMSATS Member Countries 3/4



International Mobilities

Visit of Official Delegations

- Two CUI Official Delegations Visited International University, Malaysia and USAK University, Turkiye
- Fifteen Official Delegations from COMSATS Member Countries including Iran, Nigeria and Turkiye Visited CUI

Student Mobilities

- Three CUI Students availed Semester Exchange Mobility at Middle East Technical University (METU), Turkiye
- Two Students went to Ajman University, UAE for Semester Exchange

Staff Mobilities

Two CUI Officials from International Office (IO) and Quality Enhancement Cell (QEC) participated in International Staff Week organized by USAK University, Turkiye

Engagements with COMSATS Member Countries 4/4



Participation Of Faculty, Staff and Students

- Trainings, Workshops, Conferences, etc.
- Resource person as well as participants

Joint Research Projects

Collaborative Projects with organization of COMSATS Members Countries

International Faculty Serving in CUI

- Dr. Sadat Al Shariyeh Hosseini, Associate Professor, Architecture, CUI Lahore (From Iran)
- Dr. Yasser MSA Alkhaiman, Associate Professor, Pharmacy, CUI Abbottabad (From Syria)



SDGs

Activities

No Poverty CUI Students Financial Aid Office (SOFA) is actively engaged in providing assistance to the children belonging to low-income families and want sustainability in education to stand up on their own feet.

Zero Hunger



- COMSATS University Islamabad provides student cafeterias that offer a variety of food items at economical prices. These cafeterias serve as a convenient dining option for students and staff on campus.
- The faculty members of the Environmental Science Department at CUI Vehari Campus are actively involved in research related to food security, food waste management, risk assessment etc.

Good Health and Well-Being



The Pakistan Red Crescent Society (PRCS) organized A Blood Donation Camp at COMSATS University Islamabad, on May 21, 2024, to demonstrate CUI's commitment to serving humanity by collecting high quality blood on a voluntary basis.

Quality Education



The team of Quality Enhancement Cell (QEC) COMSATS University Islamabad (CUI), Principal Seat visited CUI Wah Campus on May 17, 2024 to conduct the MS/PhD Program review.

Contribution of CUI towards UN SDGs 2/2



SDGs Activities

Gender Equality



Participation of Dr. Tahira Nazir Assistant Professor, Department of Management Sciences, attended the 13th International Conference on Business and Economic Development (ICBED) in New York from April 15th to 16th, 2024

Clean Water and Sanitation

CUI



The Director Campus / UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid T.I. attended the inaugural session of 8th International Water Conference (81WC) on a Valuing Water for Sustainability as Guest of Honor on March 6, 2024

Grow Affordable and Clean Energy



All buildings at CUI campuses are designed and constructed with a focus on energy efficiency parameters and compliance with standards issued by the capital Development Authority (CDA) and the government of Pakistan



Way Forward for South-South Cooperation

- Focus to Achieve Sustainable Development Goals through Partnership and Sharing of Resources
- Scholarships for Member Countries for MS and PhD Programs of CUI
- Exchange of Students, Faculty and Staff among Network
- Training for Repair of Scientific Equipment
- Create Consortium of Research Centers to Prepare Joint Research Projects
- Participation in Joint Workshops, Seminars, Trainings and Conferences



Thank You!









Back Up Slide:



Future Plans for COMSATS Network

- CUI looks forward to receiving positive updates from the University of the Gambia (UTG). CUI still remains committed to this valuable collaboration
- It is proposed that both universities may proceed with signing the IoC and identifying focal persons, allowing for the initiation of joint activities