



Department of **Chemical Engineering**

COMSATS University Islamabad,
Lahore campus

Why Choose DChE?

- Highest number of PhD faculty
- Extraordinary research platform
- Well-equipped labs
- Washington Accord accredited programs
- Departmental career development
- COMSATS Alumni association
- World class campus facilities

Life @ campus

- Student societies
- Student week
- Recreation/Industrial tour
- Job fair/Book fair
- Cafeteria/Gym

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About



Chemical Engineering is one of the popular engineering disciplines that bear a promising market, both at home and abroad. The Department of Chemical Engineering at COMSATS University Islamabad, Lahore Campus is striving to achieve national recognition through the educational and research achievements and nurture innovation, critical thinking and leadership in chemical engineering graduates. The Department offers enabling academic as well as social environment to its students to nourish their mental faculties and skills set. We aim for developing Chemical Engineers who are distinguished by their innovative approach, professional competence, and managerial skills.

Message From Chairman

As Chairman of the Department, it's my pleasure to welcome you to the Department of Chemical Engineering at the COMSATS University Islamabad (Lahore Campus). Our Department has a distinguished history, having been established in 2005, but the future of the Department is even more exciting.



As it stands today, we represent a host of renowned faculty, state-of-the-art classrooms and laboratories, world-recognized educational programs, hard-working and courteous staff, and a tremendously bright and talented student population. We are also in the process of increasing the size of our undergraduate programs, graduate programs, and faculty. Our undergraduate curriculum is of the most innovative in the country.

Our faculty and students are engineering molecules, materials, and devices with the potential to change industries: chemical, biotech, clean energy, and beyond. The department is launching exciting new initiatives to equip our students with computational skills that set them apart.

In the area of research, the Department's programs are growing rapidly and making quite an impact on local and regional economics. With regard to international recognition, many of our faculty members are known to be the best in the world at what they do. Overall, our highly diverse research programs encompass Membrane Science and Technology, Biotechnology, Catalysis, Polymers, Energy and Environment (including Sustainability Research), Nanotechnology, Materials, and Multi-Scale Modeling (from the tiniest of atomic structures to prediction of macro-scale processes).

Message From Chairman

I encourage you to explore our website and learn about how all of our exciting young faculty and impressive senior faculty are changing the world with their research discoveries and training the next generation of leaders along the way and learn how the people of CUI ChemE are developing knowledge and innovations to tackle some of society's most pressing problems — with unrelenting drive and creativity.

Dr. Aqeel Ahmed Bazmi
Chairman of the Department

Message From HoD

Chemical Engineering discipline has made important contributions to society over the years in terms of innovative and cutting edge research, processes and eco-friendly products. Here at our department we nourish our students through highly qualified faculty, modern facilities, knowledge conceiving environment, real time exposure, and systematic knowledge transfer tactics.



We are taking forward the vision of rector of COMSATS University Islamabad (CUI) for making CUI number one in scientific research in various engineering and non-engineering disciplines. We have adopted the international standards of academics, research and quality policy.

Having vision of solving chemical engineering problems of industries with collaboration has always been our keen priority. Our mission is to educate and prepare undergraduate and graduate students not only for industries but also for research and development (R&D) departments so that they can discover and propagate knowledge through research and be able to tackle current engineering issues. To make this dream come true, the concept of research based teaching in laboratory and conceptual learning opportunities have been adopted as primary tools of teaching. The department combines academics with useful work experience as mandatory elements of the degree requirements. We are determined to make department fruitful for faculty, researchers, graduate students and industries by providing different state of the art research equipment/testing services. In the department, we have various characterization equipment including XRD, NMR, Atomic absorption, GC- MS, HPLC, UV-Vis etc.

Message From HoD

Most of our faculty is PhD doctors who are distinguished researchers and carry out cutting-edge research in all modern research areas of Chemical Engineering. At present, the department is employing 27 PhDs. The department is receiving a number of research fundings from the Higher Education Commission (HEC), Pakistan Science Foundation and other national and international funding bodies.

We organize conferences and seminars in our department on various chemical engineering, energy, and environment related topics to enhance the vision of our students. Also, students are encouraged to attend the conferences, project competitions, and technical symposia.

Overall, we have aggressively focused on curriculum reform and infrastructure investment resulting transformational infusion of new instrumentation in many laboratories. Research infrastructure is expanding with the founding of many research groups and induction of expert faculty that broadly supports department and institute activities and strengthening research and products development and is striving to promote academia-industry linkage.

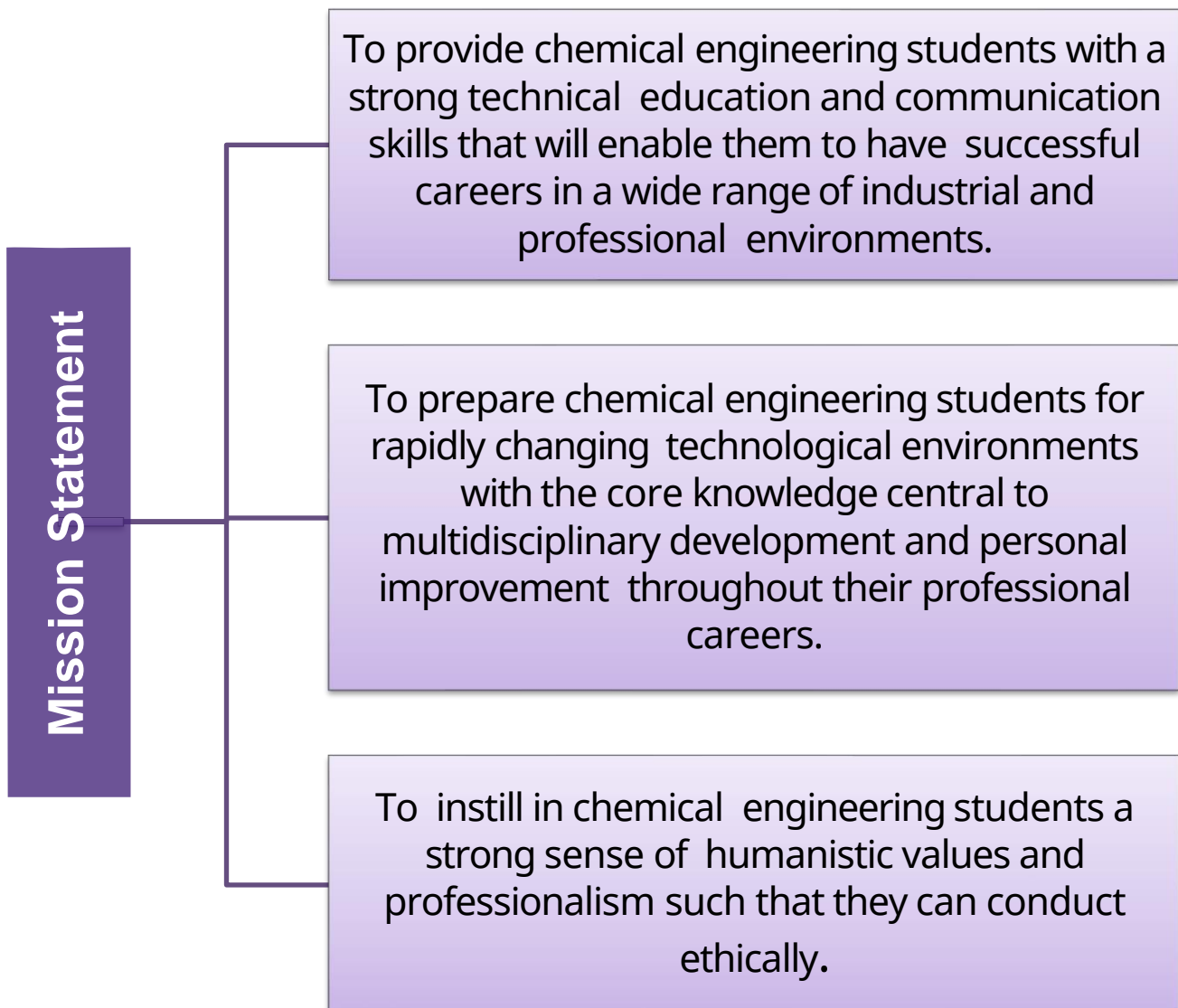
I am confident, the Chemical Engineering Department is on track to produce future graduates. I assure you that to earn an international degree in Chemical Engineering, you would find the department of Chemical Engineering at CUI Lahore the best place to be at.

Dr. Murid Hussain
Head of the Department

Vision & Mission

Vision

The vision of department of chemical engineering (COMSATS University Islamabad – Lahore campus) is to achieve national recognition through the educational and research achievements and nurture innovations, critical thinking, and leadership chemical engineering graduates.



Why Choose DChE (CUI)?

For over 16 years, the brightest and most exceptional minds from across the country and parts of the world have selected department of chemical engineering CUI, Lahore as their department of choice. What sets us apart? We are the best chemical engineering department in Pakistan with,

- Highest number of PhD faculty graduated from top ranked international universities.
- Lecture theatres with latest audio-visual facilities and labs equipped with advanced engineering equipment and computing facilities.
- Extraordinary research platform for postgraduate students with multiple research lab/groups working in different areas.
- Duly accredited programs under level-II accreditation (Washington Accord) by Pakistan Engineering Council (PEC).
- Departmental Career Development Center – helps learners and students in planning, developing and executing right career paths for them. On campus job fairs are also conducted for the graduating students.
- Alumni Association of COMSATS – provides opportunity for alumni to reconnect with their alma mater and to recognize the contribution of graduates towards industry.
- World class campus facilities i.e., Hostels, Mosque, Cafeteria, book shops, gym, sports grounds etc.

Programs Offered

The Department of Chemical Engineering traditionally offers both the undergraduate and graduate programs in Chemical Engineering (BS, MS & PhD) as well as a Master program in Energy & Environmental Engineering. The degree programs of the department are duly accredited with the Pakistan Engineering Council (PEC) under level-II accreditation (Washington Accord).

Undergraduate Programs

**Bachelor of Science in
Chemical Engineering**

**Programs
Offered**

Graduate Programs

**Master of Science in
Chemical Engineering**

**Master of Science in
Energy & Environmental Engineering**

PhD in Chemical Engineering

Our Faculty

The faculty at Chemical Engineering department is highly experienced which provides enriching academic experience to the students. The faculty at Chemical Engineering Department comprises of **56** PEC registered engineers holding BSc/MSc/PhD engineering degrees. Currently we have **26** PhD dedicated faculty members.

Faculty	Designation	Research Area
Dr. Aqeel Ahmed Bazmi	Chairman of the Department/Associate Professor	Renewable Energy & Natural Resources, Process System Engineering, Biochemical Processes, Sustainability
Dr. Murid Hussain	Head of Department / Associate Professor	Heterogeneous Catalysis, Photocatalysis, Chemical Reaction Engineering, Nanostructured Materials, Energy for Next Generation
Dr. Asad Ullah Khan	Professor	Rheology, Materials and Polymer Processing, Membrane Science and Technology, Chemical Kinetics
Dr. Moinuddin Ghauri	Associate Professor	Biomass to Energy and useful products
Dr. Noaman-ul-Haq	Associate Professor	Polymers and Composites, Membrane Technology, Polymers in Drug Delivery, Biomaterials
Dr. Zulfiqar Ali	Associate Professor	Polymer Nanocomposites, Polymer Blend, Rubber Technology, HEC approved PhD Supervisor
Dr. Asim Laeeq Khan	Associate Head of Department / Assistant Professor, Chemical Engineering	Membrane Technology
Dr. Abdul Razzaq	Assistant Professor	Dye sensitized solar cells, Quantum dots sensitized solar cells, Photocatalysis for environmental remediation and solar fuels generation, hybrid anodes for MFC.
Dr. Abrar Faisal	Assistant Professor	Adsorption, Catalysis, Biofuels, Material Development, Heat and Mass Transfer Applications, Rheology, Viscosity Models, Thixotropy, Shear Thinning
Dr. Arif Hussain	Assistant Professor	Process intensification using advanced process simulators (Aspen Plus, Hysys,) Hybrid reaction-separation processes, Multi-functional reactor design, Catalysis, Reaction Kinetics.
Dr. Fahad Rehman	Assistant Professor	Plasmas microreactors for chemical synthesis e.g., Hydrogen and ozone. Biodiesel Production, Wastewater treatment-Aeration and Sterilization. HEC Approved Supervisor
Dr. Faisal Ahmed	Assistant Professor	Process Modeling and Simulation; Process Monitoring, Operation, Control and Optimization; Process Data Modeling and Prediction

Our Faculty

Dr. M. Shahzad Khuram	Assistant Professor	Coal/Biomass Gasification
Dr. Maria Mustafa	Assistant Professor	Electrohydrodynamics, Nanofabrication, Thin Film, Optoelectronics material processing
Dr. Muhammad Imran Hassan	Assistant Professor	Functional Nano-Materials, Conducting Polymers, Graphene Oxide/ Graphene Nanocomposites
Dr. Muhammad Khaliq Majeed	Assistant Professor	Nanofiller synthesis, Nanocomposite development and their Characterization, Development of Polymeric Nanocomposite Films for Food Packaging
Dr. Muhammad Yasin	Assistant Professor	Biotechnology for biofuels, Bioprocess design and scale-up for resource recovery from waste gaseous and liquid streams, Valuable products from waste streams of sugar and bioethanol manufacturing processes, Membrane integration in bioprocessing
Dr. Um-e-Salma Amjad	Assistant Professor	Catalysis & Reaction Engineering
Dr. Zakir Khan	Assistant Professor	Biomass gasification, Co-gasification, Biomass thermal decomposition kinetics
Engr. Javed Ahmad	Assistant Professor	Automation
Ms. Khazra Ejaz	Assistant Professor	-
Dr. Tariq Mehmood	Assistant Professor	Transport Phenomena + Water Treatment
Dr. Wajih Ur Rahman	Assistant Professor	Air Pollution, Aerosol Science and Technology, Source Apportionment, Management
Dr. Azeem Mushtaq	Lecturer,	Anti-fouling Membrane Fabrication, Membrane based separation applications, Microalgae Harvesting, Bio-fuels
Dr. Farrukh Jamil	Lecturer	-
Dr. Muhammad Aslam	Lecturer	Membrane Technology (Energy & Environment)
Dr. Nabeel Ahmad	Lecturer	Thermal conversion processes, bio-fuels, Energy, Plastic and rubber waste to valuable products, Coal and biomass conversion.
Ms. Amna Akhtar	Lecturer	Wastewater Treatment, Biomaterials
Ms. Ayesha Siddiq	Lecturer	Coal Technology
Engr. Mian Hamood ur Rehman	Lecturer	Airlift bioreactors, Microbial Fuel Cells
Engr. Muhammad Akmal Rana	Lecturer	Fuel Cells, Electrolyte development, Ionic conductivity enhancement, materials development and their characterization
Engr. Muhammad Haris Hamayun	Lecturer	Process Modelling and Simulation, Process Design and Optimization, Pinch Analysis, Heat Exchanger Networking, Hydrogen Storage
Dr. Muhammad Imran Rafique	Lecturer	Renewable Energy
Engr. Zeeshan Rashid	Lecturer	-
Dr. Syed Awais Ali Shah Bokhari	Research Associate	Sustainable Energy, Renewable Energy and Environment
Engr. Mehwish Batool	Research Associate	Membranes
Engr. Mulazim Ali	Research Associate	Rice Bran Oil , Polymeric Materials , Drugs Discovery
Engr. Waleed Siddiqi	Research Associate	Green and Sustainable Polymer Nano-Composites, Green and Sustainable Polymer Nano-Composites Membrane For Wastewater Treatment and Air Purification. Sustainability.
Engr. Zabia Sajjad	Research Associate	Membrane Systems, Modeling & Simulation

Our Faculty

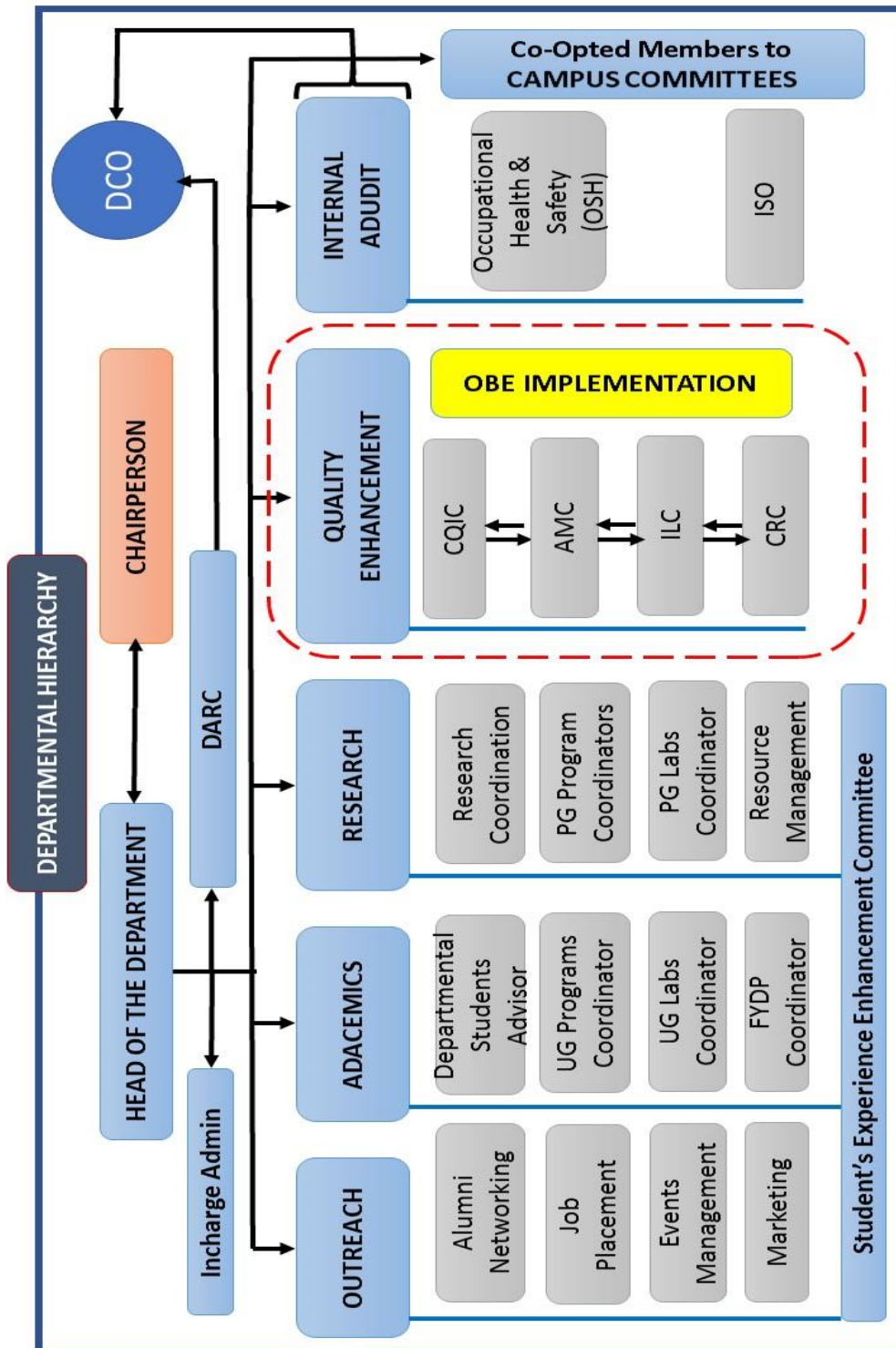
Engr. Zufishan Shamair	Research Associate	Membrane Technology, Simulation, Web Designing
Engr. Tahir Saif	Lab Engineer	Nano Technology, Hybrid Materials, Green Engineering, Non-Destructive Testing, Inspection & Quality Control, Corrosion & Surface Engineering, Renewable Energy Resources, Hydrogen Storage Materials and Fuel Cells
Engr. Umbreen Fatima	Lab Engineer	Advanced Materials & Nanotechnology
Engr. Zahra Khan	Lab Engineer	Superhydrophobic Textiles, Metal Recovery from wastewater.

Faculty On Leave

Faculty	Designation	Research Area
Engr. Amjad Riaz	Assistant Professor	Process Systems Engineering; Energy Conversion; Liquefaction
Dr. Ashfaq Ahmad	Lecturer	Renewable Energy
Engr. Nasir Shehzad	Lecturer	Photocatalysis, CO ₂ reduction, water splitting, solar fuels
Engr. Sharooz Khan	Lecturer	Renewable Energy & Nano Particles
Engr. Ahmed Shafique	Research Associate	-
Engr. Shahzad Ali	Research Associate	Bio-fuels, Microfluidics, Pervaporation membranes.
Engr. Ayesha Ilyas	Lab Engineer	Membrane Technology
Engr. Fawad Ashraf	Lab Engineer	Atmospheric chemistry, Secondary Organic Aerosol (SOA) kinetics & volatility parameters, Characterization of 'Smog-Chambers' & 'Oxidation Flow Reactor (OFR)', Source apportionment of ambient aerosols, Wastewater treatment/adsorption studies
Engr. Khurram Tahir	Lab Engineer	Wastewater treatment, Photocatalysis
Engr. Naila Riaz Mastoi	Lab Engineer	Energy Storage Materials and Devices, Surface Treatment for Corrosion Protection

Organization

The following hierarchy represents the working skeleton of the department of chemical engineering. Head of the department leads the administrative front of the department while the academic affairs route through the chairperson.



Organization

The department has five sections to ensure smooth conduction of Academic, Administrative, Research, Curricular and Extra-Curricular affairs. A senior faculty member leads each section. Each section consists of sub-committees to carry-out the instructions at operational level.

Outreach

This section consists of Alumni Networking, Job Placement, Event Management and Marketing committees. The major focus of the section is to ensure and establish a healthy relation with alumni, arrange job fair and market departmental achievements.



Academics

This section looks after the student's affairs through Batch Advisors and UG labs coordinator and FYDP coordinator.

Organization

Research

The department of chemical engineering is leading in the area of research and technology in Pakistan. We are the first department to publish over a 100 research articles in international peer-reviewed journals from last two years. The research sections ensures a conducive environment for the research and research group's requirements are met.



Organization

Quality Enhancement Cell

Departmental Quality Enhancement Cell (DQEC) at the Department of Chemical Engineering is responsible to assure and enhance the quality of both;

- Teaching Practice, and
- Students' Learning

Quality Assurance & Enhancement in Teaching Practice

This document describes the Quality Assurance in Teaching Practice at the department. The quality of teaching is assessed by a well-defined "Peer Review Process". Good teaching includes the continuous monitoring of the effects of teaching on students' learning using a variety of evaluative techniques. As the name suggests, peer review of teaching is simply the process of having a colleague review one's teaching and provide feedback.

A Peer Review Committee consists of Senior Faculty Members is constituted for periodic peer review in each semester. The DQEC schedules the peer view, perform analysis of the feedback, maintains record and communicates the recommendations of the committee to respective faculty members. Feedback of committee for each faculty member is compared with the feedback of previous semester and the improvements/shortcomings are communicated with respective faculty member.

The entire Peer Review Process consist of three phases;

Organization

- (1) **Pre-Scheduled Pre-Visit Meeting with the resource person of the course**-In which the Reviewer discusses the course content taught so far and both mutually agree upon the time slot and content to be delivered (with CLO(s)) during the visit and both sign a prescribed Performa.
- (2) **Pre-Scheduled Peer Review Visit**-In which the Reviewer(s) Visit the class and observe the Teaching of his/her colleague as per prescribed rubrics.
- (3) **Pre-Scheduled Post Visit Meeting with the resource person**-In which reviewer conveys the strengths and weaknesses of teaching to the respective resource person

Quality Assurance & Enhancement in Students' Learning

- DQEC has following independent committees to deal with following "Implementation of OBE" within the department:
 - Continuous Quality Improvement
 - Industrial Liaison
 - Curriculum Review
 - PEC Accreditation Portal/Visit Management
- The Committees within DQEC are well synchronized to assist DQEC to accomplish also the following tasks:
 - Continuous Quality Improvement
 - Exam Paper Moderation
 - Folder Audit
 - Moderation of Complex Engineering Problems
 - Development of Rubrics

Organization

- Final Year Project
 - Internship/Industrial Tours/Invited Expert Lectures
 - Environment, Health and Safety (EHS)
 - Assessment and analysis of CLOs, PLOs and PEOs
 - Faculty Trainings
-
- From the designing of the Course Learning Outcomes (CLOs) to assessment and evaluation of Program Learning Outcomes (PLOs) and Program Educational Outcomes (PEOs) and academic and administrative audit is carried out by Continuous Quality Improvement Committee (CQIC)
 - Any change in the course contents and scheme of studies is carried out through Curriculum Review Committee (CRC)
 - Pakistan Engineering Council's accreditation visits are conducted through Accreditation Management Committee while Industrial Liaison Cell is responsible for arranging student's internship, industrial tours and job placement

Internal Audit

The safety is taken very earnestly in the department. Occupational Health and Safety (OHS) cell regularly holds fire drill, safety trainings and safety audits.

Admissions

Admission Criteria

An applicant for admission at the university should have passed the Intermediate (Pre-Engineering) Examination with Chemistry, Mathematics and Physics from a Board of Intermediate and Secondary Education of Pakistan or an equivalent examination recognized by the University. The applicant for admission must fulfill the following requirements:

- Students scoring 60 % or more marks in F.Sc/A level/ (Math, Physics and Chemistry) and/or DAE (Chemical) having 60% marks, from an accredited/ recognized educational institution, are eligible for admission in BS (Ch-E) program.
- He/She must have secured at least 50% marks in the entrance test conducted by NTS.

Merit Criteria

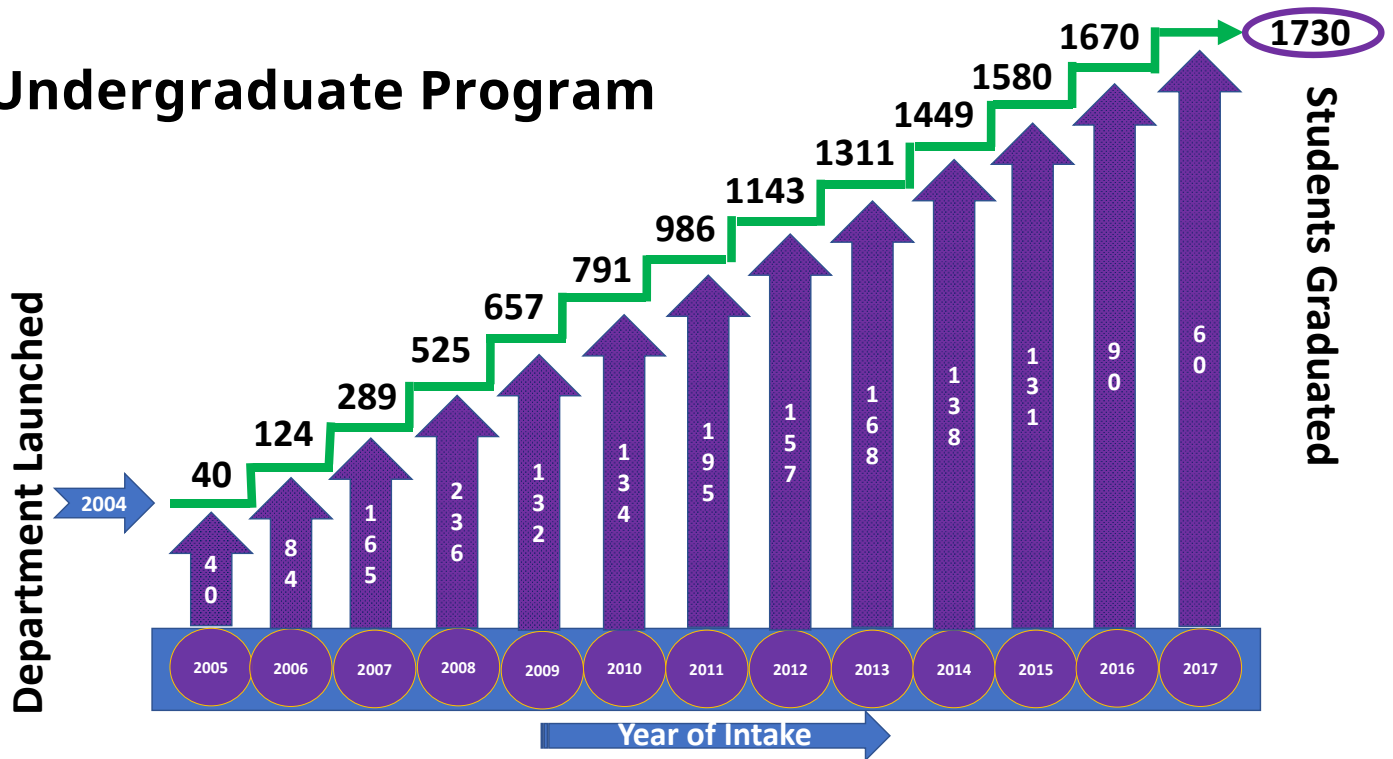
All admissions are regulated by merit determined on the basis of weighted marks—obtained in the entrance test by NTS and marks obtained in previous public examinations (Matriculations / F.Sc Pre-Engineering). The criterion of admission is as follows:

Examination	% Weight-age
Matriculation	10 %
Intermediate (Pre engineering)	40 %
Entrance Test (NTS)	50 %

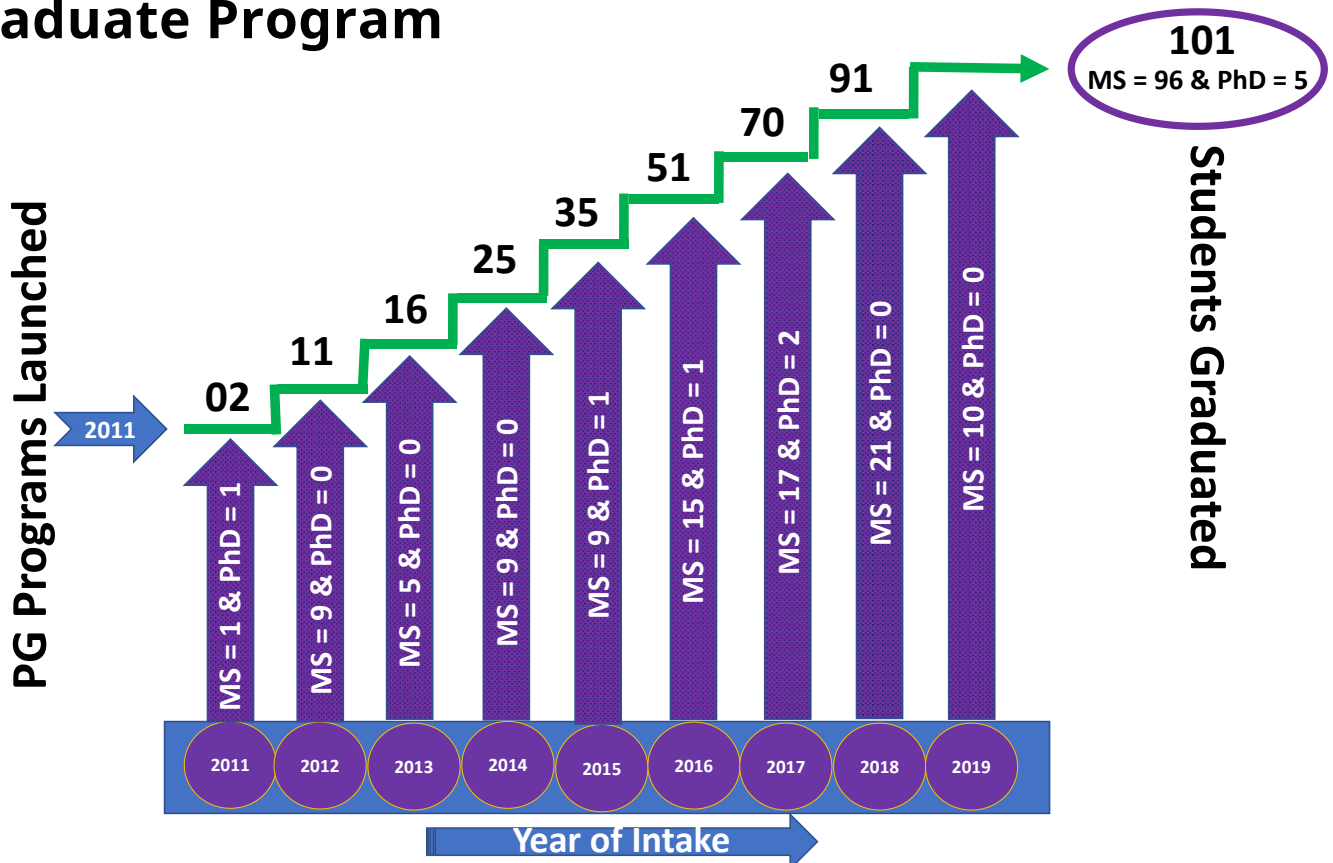
Admissions

Graduated Students

Undergraduate Program



Graduate Program



Teaching Philosophy

Chemical Engineering requires a foundational knowledge in chemistry, biology, physics, and mathematics. From this foundation, chemical engineers develop core expertise in thermodynamics, transport processes, and chemical kinetics. Combined with a range of complementary elective courses, this describes the essential academic of our undergraduate degree program. This program is for students who seek a broad education in the application of chemical engineering to a variety of specific areas, including energy and the environment, membrane technology, nanotechnology, polymers and colloids, surface science, catalysis and reaction engineering, systems and process design, and biotechnology. Our teaching philosophy is based on:

Our Teaching Philosophy is based on:

Competency-Based Learning

- Competency-based learning refers to systems of instruction, assessment, grading, and academic reporting that are based on students demonstrating that they have learned the knowledge and skills they are expected to learn as they progress through their education.
- Competency-based systems use learning standards to determine academic expectations and define “competency” or “proficiency” in each course, subject area, or grade level.
- The general goal of competency-based learning is to ensure that students are acquiring the required knowledge and skills that are deemed to be essential to success in their careers, higher education and life.

Teaching Philosophy

- If students fail to meet expected learning standards, they typically receive additional instruction, practice time, and academic support through Smart Students' Guidance System (SSGS) to help them achieve competency or meet the expected standards.

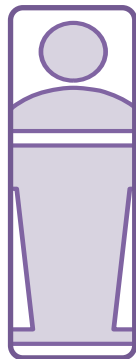
Applied Knowledge



In a knowledge-based society, knowledge that leads to innovation and commercial activity is now recognized as critical to economic development.



Making a distinction between academic and applied knowledge misses the real point about the kind of education needed in a knowledge society and the digital age.



It is not sufficient just to teach academic content (applied or not). It is equally important also to enable students to develop the ability to know how to find, analyze, organize and apply information/content within their professional and personal activities, to take responsibility for their own learning, and to be flexible and adaptable to developing new knowledge and skills.



We impart to our students; the applied knowledge which is practical knowledge that is produced by putting academic knowledge into practice.

Teaching Philosophy

Complex Problem Solving

Complex problem solving (CPS) is a collection of self-regulated psychological processes and activities necessary in dynamic environments to achieve ill-defined goals that cannot be reached by routine actions.

Creative combinations of knowledge and a broad set of strategies are needed. Solutions are often more bricolage than perfect or optimal.

The problem-solving process combines cognitive, emotional, and motivational aspects, particularly in high-stakes situations.

Complex problems usually involve knowledge-rich requirements and collaboration among different persons.

We have designed rigorous mechanism through which each student undergoes CPS throughout his/her study duration

Teaching Philosophy

Undergraduate Research

While research is the hallmark of our top-ranked graduate program, undergraduates can also experience the excitement of making new discoveries through "**Undergraduate Research Opportunities**":

- A compulsory "Chemical Process Design Project"
- Opportunities to assist Postgraduate Students

Good Teaching Practice

Our highly qualified and pedagogically well-trained faculty at the department of Chemical Engineering focus on the following universally accepted seven principles (anchored in extensive research about teaching, learning, and the student's experience):

The Principles

Encourage Student – Instructor Contact

Encourage Cooperation Among Students

Encourage Active Learning

Give Prompt Feedback

Emphasize Time on Task

Communicate High Expectations

Respect Diverse Talents and Ways of Learning

Outcome Based Education

Implementation

- Outcome Based Education (OBE) is a process that involves assessment and evaluation practices in education to reflect the attainment of expected learning and showing mastery in the program area.
- Our undergraduate program in Chemical Engineering strictly follows the OBE model. Acknowledging the implementation of OBE, PEC has granted accreditation to our BS Chemical Engineering program for a period of three years under Level-II (Washington Accord). This include intakes of Fall 2016-2018.
- OBE based accreditation provides new opportunities to our graduates and remove barriers in their international mobility for higher studies and job across the world.

Quality Assurance

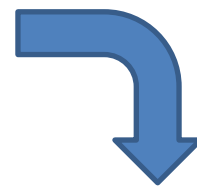
Quality enhancement is a holistic approach covering all the processes in a higher education institution, in order to not only serve the students and other stakeholders in expected quality standards but also enhance the quality standards.

Departmental Quality Enhancement Cell (DQEC)

Achieve

Maintain

Enhance



The Quality of



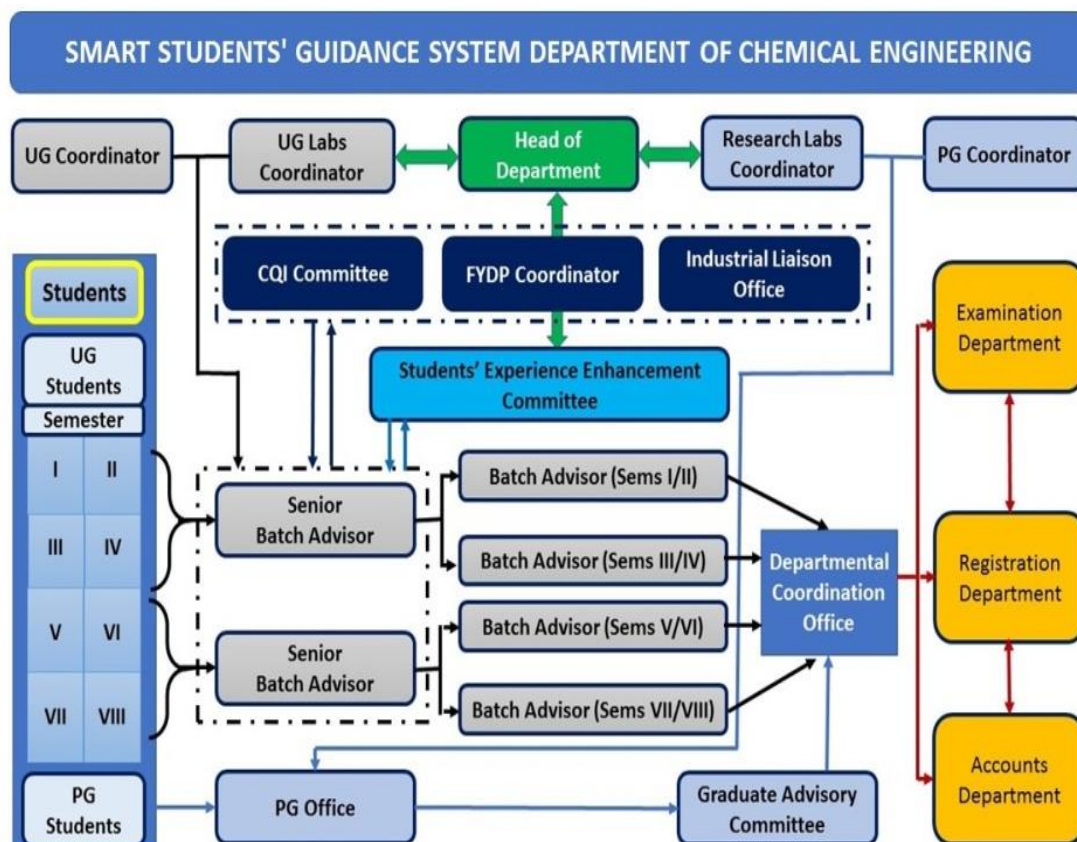
Learning Experience



Life @ Campus

Smart Students' Guidance System

The Department of Chemical Engineering believes in counselling and assisting the students over the period of their stay in campus. This is carried out through Smart Students' Guidance System (SSGS).



- Students normally face the problems regarding registration of hostel, transport, course(s) or semester, exam coupon, fee installments, clearance after graduation etc.,
- The SSGS is particularly designed to cater each problem with maximum possible facilitation to students.

Smart Students' Guidance System

- Each batch is allocated with a batch advisor to discuss any problem student is facing at an individual level.
- Each batch advisor is reportable to a senior batch advisor.
- Departmental coordination office, in liaison with senior batch advisor, coordinates with registration department, examination department, hostels, transport section, accounts department and all other allied departments.
- For students to maximize their learning experience through curricular and extra-curricular activities a special committee named Student Experience Enhancement Committee has been constituted. The committee works in close contacts with continuous quality improvement cell, final year design project office and industrial liaison office. Head of Department directly looks after the committee to provide best experience to the students.



Smart Students' Guidance System

- Postgraduate students are supervised by PhD holder faculty members. Their research and administrative needs are discussed and met by Postgraduate (PG) Office. Their administrative affairs are discussed in Graduate Advisory Committee and route through Chairman to higher management level.



Smart Students' Guidance System

Code Of Conduct

No Smoking, No Drugs

No Arms

Always display ID card

Switch off cell phone in classrooms

Abide by dress code

Avoid political and religious discussions

Believing in earning reward through Hard Work

All students should make a habit of saying, "Assalam-wa-Alaikum" to all faculty members / officers / staff



Research Domains

Biomass Conversion Research Group (BCRG)

Biomass Conversion Research Group was established in 2008 to support the science and technology goals of Government of Pakistan. Headquartered at CUI Lahore, this research group unifies Pakistan's efforts to advance technology for producing fuels, chemicals, materials, and power from biomass. BCRG will be a collaborative effort between CUI, DUET, and MUET.

The Biomass Conversion Research Center (BCRG) aims to apply chemical engineering science and technology to the development of advanced processes for the production of electricity, liquid fuels and gaseous fuels and chemicals from natural sources.

Members

Dr. Moeen-ud-Din Ghauri (Lead)

Dr. Zakir Khan

Dr. Shahzad Khurram

Dr. Syed Awais Ali Shah Bokhari

Research Domains

Process & Energy Systems Engineering Center (PRESTIGE)

Process and Energy Systems Engineering (PRESTIGE) is established within Department of Chemical Engineering, CUI-Lahore in collaboration with “Process System Engineering Center (PROSPECT) – Univiersiti Teknologi Malaysia (UTM), Malaysia”.

In meeting the modern-day process engineering challenges marked by volatile energy prices and rising concern on climate change, PRESTIGE will strive to “engineer sustainability” by providing comprehensive and innovative solution through R & D, consultancy services and trainings. PRESTIGE’s ultimate aim is process intensification, i.e., the creation of cleaner, safer, energy-efficient, cost-effective and sustainable process systems. PRESTIGE’s tagline, “Engineering Sustainability” reflects its core philosophy and expertise in the creation and engineering of sustainable products, process and energy systems.

Members

Dr. Aqeel Ahmed Bazmi (Lead)

Dr. Faisal Ahmed

Dr. Arif Hussain

Engr. Amjad Riaz

Research Domains

Catalysis & Reaction Engineering Research Group (CRERG)

Catalysis & Reaction Engineering Research Group @ COMSATS seeks to understand reaction mechanism, kinetics and elucidate design principles in both heterogeneous and photocatalysis. The research facilities ranging from the catalyst synthesis to their applications in various reactions have been established at the Department of Chemical Engineering, COMSATS University Islamabad, Lahore Campus, Pakistan. The research group is actively engaged to address some of the key issues in the areas of energy and environment.

Members

Dr. Murid Hussain (Lead)

Dr. Ume-salma Amjad

Dr. Abdul Razzaq

Dr. Farrukh Jamil

Dr. Nabeel Ahmad

Engr. Nasir Shezad

Engr. Haris Hamayun

Engr. Mulazim Ali

Catalysis & Reaction Engineering Research Group Lab Facilities

- Hydrothermal Reactors
- Reforming Reaction Unit
- Photocatalytic Reactors
- Isothermal Reaction Unit (upto 800 °C)
- Pilot Plant (batch reactors)
- Tube Furnace for Carbonization (inert environment)
- Gas Analyzers

Research Domains

Functional Polymer and Rubber Technology Lab

Functional Polymer and Rubber Technology Lab (FPRTL) is an interdisciplinary research group deals with the synthesis, modification and processing of functional polymers and rubber composites for variety of different applications, including automotive parts, sensors, fire retardant and electrical appliances. The labs are equipped with the state-of-the-art machines for processing and characterization of polymer and rubber products. The group has established vibrant collaboration with local industry and public sector organizations.

Members

Dr. Zulfiqar Ali (Lead)

Dr. Imran Hassan Naqvi, Dr. Khaliq Majeed

Dr. Abdul Razzaq, Dr. Shahid Nazir

Dr. Sadaf Ul Hassan, Engr. Waleed Siddiqui

Engr. Hassan Iftikhar, Engr. Saddat Ullah

FPRT Labs Facilities

- Internal Mixer, HAAKE™ Rheomix, ThermoFisher Scientific Germany
- Hydraulic Laboratory Press, Carver Inc. USA
- MDR 3000 Professional, MonTech Rubber Testing Solutions
- MDR-VS3000 Sample Cutter, MonTech Rubber Testing Solutions Germany
- Mini Injection Molding Machine, Nessie HM Japan
- Compression Molding Machine, China

Research Domains

Membrane Systems Research Group (MSRG)

Membrane Systems Research Group @ COMSATS pursues both fundamental and applied research related to the ever-growing area of membrane based liquid and gaseous separations. An integrated interdisciplinary research facility on membrane science and technology is established at the Department of Chemical Engineering CUI., COMSATS University Islamabad, Lahore, Pakistan. The group is actively involved to address some of the key issues related to the current energy and water crisis and environmental degradation.

Members

Dr. Asim Laeeq Khan (Lead)

Dr Asad U. Khan

Dr. Nauman ul Haq

Dr. Muhammad Yasin

Dr. Muhammad Aslam

Dr. Azeem Mushtaq

Membrane Technology Laboratory Facilities

- Automated Membrane Casting Device
- Spin-coater and Dip-coater
- Interfacial Polymerization Set-up
- Dead-end and Cross flow filtration units
- Mixed-gas Permeation Set-up
- Forward Osmosis Unit

Research Domains

Microfluidics Research Group (MRG)

Microfluidics Research Group is focused on inventing technologies and application in the field of chemical synthesis and wastewater treatment by exploiting the advantages of miniaturization of conventional technologies. The group has demonstrated unprecedented experimental results for higher conversion and rate of reaction for the production of biodiesel, esters and aeration using microbubble mediated mass transfer technology and the production of ozone and hydrogen using microplasmas. Integrating cutting edge technologies such as photocatalysis with microplasmas and microbubbles is another dimension the group is working on.

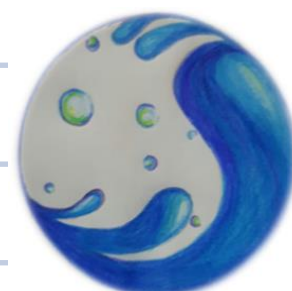
Members

Dr. Fahad Rehman (Lead)

Dr. Abrar Faisal

Dr. Maria Mustafa

Engr. Tariq Mahmood Raza



Microfluidics Research Group

Microfluidics Laboratory Facilities

- **Microplasmas** (Plasma microreactors, Higher Voltage Power Supplies, High Voltage Probe, Current Probe, Oscilloscope, Ozone analyzer, Hydrogen analyzer, hydrogen generator)
- **Biofuel Production Facilities** (Bubble reactors, BoD incubator, Shaking incubator, Freeze Dryer, Autoclave, Sonicator, Biosafety Cabinet, ultra-pure water assembly, centrifuges)
- **Wastewater Treatment** (Photocatalytic Rig, Adsorption Rig, Aeration Rigs, DO Probe, TDS probe, pH Meters) and Fluidic Oscillator)

Projects

The Department of Chemical Engineering holds a number of major national and international grants enabling research friendly environment and development of products making an impact in the progress of country. The list of major projects are given below:

Sr. No.	Faculty Member Name / Designation	Project Title	Funding Agency	Amount (PKR)	Duration
1	Dr. Moinuddin Ghauri Associate Professor	Production of Synthesis Gas from Biomass in Bubbling Fluidized Bed Gasifier	HEC/NRPU	7.5 Million	3 years
2	Dr Zakir Khan Assistant Professor	Basic Research and Capacity Investigation for Distributed Bio-Energy Utilization Via Thermo-Chemical Conversion	PSF and NSFC, China	8.56 Million PKR	Dec 2016- Dec 2020 (Extended to from Dec 2019-Dec 2020)
3	Dr. Murid Hussain Associate Professor	Pilot plan for Development of bio-degradable laundry liquid detergent and dish washer liquid detergents	TDF HEC/Industry	5.05 Million PKR	2 years
4	Dr. Umesalma Amjad Assistant Professor	Hydrogen rich gas generation from waste plastic	HEC/SRGP 2016	0.49 Million	1 years
5	Dr. Abdul Razzaq Assistant Professor	Development of Photocatalytic Materials for Organic Dyes Degradation under UV/Visible Light Irradiation	HEC/SRGP	0.48 Million	1 years
6	Dr. Fahad Rehman Assistant Professor	Simultaneous Biodiesel Production and Textile wastewater treatment using microalgal advance oxidation process system	HEC/NRPU	19.8 million PKR	3 years
7	Dr Maria Mustafa Assistant Professor	Nanofabrication of organic light emitting diodes devices using ultrafast inkjet printing system	HEC/NRPU 2017	2.83 Million PKR	3 years

Projects

8	Dr. Fahad Rehman Assistant Professor	Hydrogen Production and Separation for Decentralized Power Generation for Rural areas of Pakistan	HEC/NRPU	10.04 Million PKR	3 years
9	Asad Ullah Khan Professor	Generation of hydrophobic surfaces for improved corrosion and nanomechanical properties	Swedish Research Program	4.62 Million PKR	
10	Asad Ullah Khan Professor	A Sustainable Point-of-Use Filtration Unit for Treating Pesticide Contaminated Groundwater	Pak-US	17.13 Million	
11	Dr. Faisal Ahmed Assistant Professor	Reduction of Nitrogen Oxides (NOx) from pulverized coal-fired boiler in a standard 500MW power plant using Artificial Intelligence	HEC/NRPU	1.19 Million PKR	2 years
12	Dr Zulfiqar Ali Associate Professor	Use of layered Double Hydroxide to engineer Thermo mechanical properties of Rubber	HEC/NRPU	6.4 Million PKR	3 years
13	Dr. Asim Laeeq Khan Assistant Professor	Membrane Technology for Clean Energy and Sustainable Environment	GCRF, United Kingdom	25,000 British Pounds	2 years
14	Dr. Asim Laeeq Khan Assistant Professor	Next Generation Mixed Matrix Membranes for CO2 Separations aimed at Energy & Environmental Issues	HEC/NRPU	12 Million PKR	3 years

Projects

15	Dr. Asim Laeeq Khan Assistant Professor	Functionalized and task specific asymmetric polymeric and mixed matrix membranes for biogas purification and syn-gas processing	HEC/NRPU	3.49 Million PKR	3 years
16	Dr. Asim Laeeq Khan Assistant Professor	Synthesis of Chemically Modified Polymeric Membranes for Biogas Purification and Natural Gas Sweetening	PSF	2.2 Million PKR	2 years
17	Dr. Umesalma Amjad Assistant Professor	"Hydrogen Rich Gas Generation from Waste Plastic Phase II: Comparing Energy Efficiency and Kinetics of Reforming & Pyrolysis Process	HEC/NRPU	9.86 Million PKR	2 years
18	Dr. Naim Rashid Assistant Professor	The Use of Microalgae for Biodiesel Production and Wastewater Treatment in Pakistan	HEC/NRPU	3.9 Million	3 years

Collaboration

- The department has the vision to develop strong collaboration with industry and academia at the national and international levels.
- The faculty has developed strong international links with leading research groups in their respective area of research. Currently, the faculty has strong international collaboration with the USA, UK, Italy, Sweden, France, Germany, Korea, Malaysia, and China.
- The faculty has also developed strong relations with local industry. Evidence of the industry-academia linkage is:

- Collaboration with CMYK Research and Development, Gujranwala

ChE/CUI and CMYK joined hands together through a formal agreement signing held at the Lahore campus on Tuesday, Feb 23, 2021.

- Collaboration with Shama Banaspati & Cooking Oil, Multan

Catalysis & reaction engineering lab was established under academia-industry linkage i.e., the Technology Development Fund (TDF) Project funded by HEC and Shama Banaspati & Cooking Oil, Multan was won by HoD, ChE.

- Collaboration of a project with NESCOM

Collaboration

➤ In addition to industrial collaboration, student exchange programs are also launched to create opportunities for the students, their exposure to a different learning environment will broaden and enrich their learning experience as well as increase the networking with students from other universities.

- Erasmus Mundus Fusion Exchange Scholarships – Student Exchange Program

Erasmus Mundus is the most prestigious opportunity and is funded by the European Commission.

- Universiti Malaysia Pahang Student Exchange Program

The Student Exchange Program/Industrial Training is designed to create opportunities for incoming students as well as UMP students to experience the learning process at other institutes of higher learning.

Scholarships

Sr.	Name of Financial Aid/Scholarship	Type of Scholarship/ Financial Aid	Who can Apply	Eligibility Criteria
1	HEC-Ehsaas Need Based Scholarship	Need Based-Scholarship/ Fully funded	For open merit newly enrolled BS level students	Based on Need Assessment
2	PEEF Scholarships	Need Based-Scholarship/ Partially funded	1 st semester students only For BS and MS programs	i). HSSC/BS in 2021 with 60% Marks or 2.5 CGPA ii) Domicile Punjab iii) Salary Limit P.M up to 30,000/-
3	KPK-FEF Scholarships	Need Based-Scholarship/ Partially funded	1 st semester students only For BS and MS programs	i). HSSC/BS with 60% Marks or 2.5 CGPA ii) Domicile-KPK iii) Salary Limit P.M 50,000/-
4	CUI-Financial Assistance	Partially Funded	All open merit students For BS and MS	Based on Need Assessment
5	Ihsan Trust- Qarz-e-Hasna (Interest Free Loan)	Interest Free Loan/Partially Funded	All open merit students For BS programs	Based on Need Assessment
6	HEC-PM Reimbursement Scheme	Partially funded	New Intake PhD students from selected Areas	Enrolled in Phd/belongs to selected district District list can be seen at HEC Link/at SFAO office
7	Federal/Provincial Benevolent Fund Scholarships	Partially Funded	Students/Children of permanent Govt Employees Federal/Provincial	as per Govt Rules/ For Details visit SFAO office
8	Kinship Concession	Partially Funded	All open merit for BS programs students	Two or more students concurrently studying at CUI

- *Forms are available at SSC/ Book Shops and website of CUI-Lahore*
- *For further details/queries please contact Student Financial Aid office/Website*

Events

Scope

This section of Chemical Engineering Department aims to conduct Events, Seminars, any Summer Winter Camps and it also runs a student chapter named AICHE-COMSATS Student Chapter. To manage the National and International conferences are also under this section.

AICHE-COMSATS Student Chapter provides the platform to promote the professional development of Chemical Engineering students by engaging them in various curricular and extra curricular activities, arranging training seminars by inviting Industrial experts, playing role in National and International Conferences arranged by the Department, helping in arranging job fairs, Proposing various activities during the student week, and arranging CHEMFEST among various local AICHE Chapters.

Past Events

➤ *International Conferences*

1st International Conference on Energy Systems for Sustainable Development was held in 2015.



Events

2nd International Conference on Energy Systems for Sustainable Development was held in 2018. International and National level researchers and scientists were invited. Here are some clicks from the event.



➤ *Summer Camp for Research Students and Professionals*

The Department of Chemical Engineering organized its first summer camp from 29th July 2019 to 2nd August 2019. It covered the lectures on major analytical techniques. Various advance lab analytical & synthesis techniques and their applications were explored throughout the program via a series of seminars as well as several hands-on laboratory sessions.



Events

➤ *Workshop on “How to Improve Writing and Publication Skills”*

The Department of Chemical Engineering arranged a two days training workshop on “How to Improve Writing and Publication Skills”. The objective of this workshop was to master the writing and publication skills of its graduate students to tailor their data and concepts into a selling document.



➤ *Pak-China Business Forum Industrial Expo*

In Pak-China Business Forum 2019, thematic session on Water conservation was jointly organized by Department of Chemical Engineering and Department of Chemistry from CUI, Lahore. This session witnessed hundreds of participants and several technical speakers who thrown light on importance of water crisis and its solutions.



Events

➤ CHEMETHON 1.0

The International student chapter of American Institute of Chemical Engineering AIChE of Department Chemical Engineering CUI Lahore Campus arranged a national level technical competition on 19th & 20th October 2019, with the title "CHEMATHON 1.0" in the student week. Eight teams from all over the Pakistan participated in this competition. Winners were also awarded with prizes and certificates.



Facilities

Laboratories And Lab work

The department has all the requisite laboratories, which are equipped with training systems and instruments. The laboratories have proper and sufficient equipment and space to perform all the experiments as per objectives defined in the syllabi. Every lab has in-charges and associated staff members to help conduct the course. Students get hands on experience and feel of the practical knowledge as an extension of their already studied theory subject.



Facilities

Undergraduate Labs

- General Engineering Lab
- General Chemistry Lab
- Particulate Technology Lab
- Advanced Computing Lab
- Fluid Mechanics for Chemical Engineers Lab
- Fuels & Energy Lab
- Thermodynamics Lab
- Advances Programming Lab
- Heat Transfer Operations Lab
- Mass Transfer Operations Lab
- Chemical Reaction Engineering Lab
- Process Control Lab
- Simultaneous Heat and Mass Transfer Operations Lab

Facilities

Student Service Center

Student Services Center (SSC) is established to facilitate students by one-window operation in lieu of their all academic and non-academic issues. For this purpose, we have developed an online portal, referred to as the Student Facilitation System (SFS); which can be accessed both on and off campus. This portal can be utilized by the students for:



Putting up their queries under the relevant section / department such as registration, accounts, examination, IT, library etc.

Obtaining information about policies, rules and procedures

Checking status of their application/query/problem already uploaded/submitted

Facilities

Hostel Accommodation

At present CUI runs four boys' hostels inside and outside the campus.

➤ *Boys Hostels*

- M A Jinnah Hall (47 rooms with a total of 146 students)
- Liaqat Hall (70 rooms with a total of 210 students)
- Jupiter Hall (75 rooms with a total of 243 students)
- Johar Hall (49 rooms with a total of 118 students)

All the rooms are fully furnished and equipped with free internet facility as well.



Facilities

➤ *Girls Hostels*

The university also has a very spacious girls' hostel "Fatima Jinnah Girls Hostel" with about 96 rooms. The hostel has a total of 346 students at the present.

Common rooms, halls, modern kitchens, computer labs, free transportation, health care and many others such facilities make students' stay at hostel as comfortable as possible.



Facilities

Auditorium And Seminar Halls

The campus spreads over 186 acres of land and has covered area of over 400,000 sqft. The campus has four administration blocks and eight academic blocks. Covered area of administration block is approximately 4,000 sq ft; each academic block has an area of approximately 20,000 sq ft. A central place of area 30,000sq. ft. has been dedicated, where 1000 people can be comfortably accommodated for ceremonial and functional activities. Conference hall spreads on a cover area of 1500 sq. ft., easily accommodate 125 persons. Chemical Engineering Department has its own block. Also, Chemical Engineering Department shares classrooms available in all four academic and new block. Each classroom equipped with necessary audio-visual aid OHP, Multimedia Projectors, etc..



Facilities

Sport Facilities

Sports facilities at CIIT Lahore Campus are as follow:

➤ *Gymnasium*

Total covered area of the gymnasium is 7500 Sq ft. The facilities available for gymnasium include Bodybuilding, Snooker, Table Tennis, and Badminton.



➤ *Playgrounds*

Cricket, hockey, basketball, lawn tennis, badminton and football-grounds have been developed at the campus and are being used by the students.



Facilities

Library

The CUI Lahore Library is rich in resources. It contains about 24,300 hard copy books. In addition, library contains books in softcopy form, projects' reports and audio/ video cassettes. As a result of continuous updating and enhancement of this invaluable resource, large number of textbooks are purchased and made available to students.



Facilities

Book Bank

The CUI Lahore Library has professional trade relations for resource sharing with Lahore University of Management Sciences (LUMS), National University of Computer and Emerging Sciences (NUCES – FAST) and all campuses of CIIT. Book Bank is available at CIIT Book shop and students can get their books form the shop with economical rates.



Book Fairs / Exhibitions

Apart from our day to daybook acquisition, the library also arranges Book Fairs/ Exhibitions to not only instil book reading practice but also to facilitate faculty in recommending books for the library. The well reputed venders from all over the country participate with latest collection of books related to Engineering disciplines and other subject areas. Faculty and students can not only recommend the books for the library but also, they can also purchase their personal copies on special discount from the venders.

Facilities

Transport Facility

COMSATS University is dedicated to every possible limit to make life for its students as comfortable as possible. Transport service is provided to all the students at a very economical cost. For this purpose, the university has a total of thirteen (13) HINO buses and six (6) coasters. All these vehicles cover Lahore, and the transport is provided three times a day for total of eighteen (16) routes. For emergency purposes, an ambulance is also available. A transport office has been set up for this purpose which makes sure that all of the students can avail the transport facility as easily as possible.



Medical Facility

Health Center has been established near the Girls hostel under the supervision of qualified resident medical officer. It provides first aid and medical facilities to students, staff and faculty members.

Facilities

Mosque

Central masjid located between academic building and boys' hostel provides a serene facility for prayers including Jumma congregation.



Cafeteria

A new centralized cafeteria is opened in Fall 2018 semester. It has separate halls for students and faculty and can hold up to 1000 persons at any given time. Cafeteria also contains a book shop, a gift shop, fruit/juice shop, a coffee shop, BBQ shop etc.

Safety, Health & Environment

Safety Policy

As an engineering department of a leading research university, the department of chemical engineering is committed to provide highest quality of safety, health and environment in its all activities. The department will ensure that health & safety are given equal consideration with all other aspects of its activities. The department is committed to provide safe & healthy environment, by implementing effective risk control strategies, to all employees and all other persons in its premises including students, visitors and contractors.



Safety, Health & Environment

► Implementation of SHE at Department of Chemical Engineering

The Occupational Safety and Health (OSH) Committee in the Department of Chemical Engineering at CUI, Lahore campus is an advisory body which identifies the situations that may be unsafe for the personnel and advises on effective systems for responding to the situations. The committee consults with management and personnel on issues related to occupational safety and health and occupational environment.



Life @ CAMPUS

Life at department of chemical engineering, CUI Lahore campus is more than an education. For 4 year stay at campus, students explore a lot of curricular/extra-curricular opportunities:

Student Societies

There are number of registered student societies in campus which provide students a platform to polish their extra-curricular skills i.e., COMSATS Lahore debating society (CLDS), AIChE, COMSATS religious society, COMSATS music society, Sports societies etc.



Student Week

It's a tradition of campus to arrange student's week every semester. The week consists of multiple events hosted by different student societies i.e., debate competitions, Naat competitions and sports events etc. to give students a healthy study break.



Recreation/Industrial Tours

Different recreational/industrial tours are arranged on regular basis for students to boost their exposure, respectively.



Life @ CAMPUS

Job Fair/Book Fair

Book/job fairs are arranged for students every semester so that they could get books/jobs of their choice at their doorstep. Apart from job fairs, on/off campus recruitment drives are also arranged by collaborative industries to facilitate students in job hunting.



Life @ CAMPUS

Cafeteria/Gym

The campus has a world class cafeteria and a gym with dedicated staff for students to cater for their health and fitness.



Alumni

Creating an engaged, supportive alumni network is crucial to an institution's success. If communication stops once graduates leave an institution, their understanding of the university will become stale. Instead, they should be kept informed so they can remain engaged and keep abreast on the progress of the university.

COMSATS University Islamabad (CUI) and alumni maintain good connection which bring many benefits to both the institution and the alumni. As graduates of the university, alumni have a special connection with the university and as a result are likely to be some of its more loyal supporters.

Our Alumni Experience

WHAT OUR ALUMNI SAY



“

I am a proud graduate of COMSATS Lahore Chemical Engineering Dept pursuing my MS in Environmental Sciences alongside am CQI|IRCA certified lead auditor and Member Board of Certified Safety Professional USA. After my graduation, I got a chance to work with multinational companies. I have working experience with PEPSICO, Gulfpower, Environmental consultancies. Currently, I am working as an HSE Advisor with MOL Group (An Hungarian upstream Oil and Gas company). CUI is one of the best institutes. I would strongly recommend it to newcomers.

-AWAIS BASHIR

Alumni

WHAT OUR ALUMNI SAY

I joined COMSATS family in 2008 as an undergraduate student which made a commendable impact in my life. The profound repute, level of education, prolific and distinguished faculty and state of the art facilities are among the factors that has prompt me to choose the Chemical Engineering department. Providing the research facility at the bachelor's level with highly equipped labs with latest technology has embarked me to fetch the prestigious degree. I obtained my doctoral degree on a fully funded scholarship from Beijing Institute of Technology, China. My research areas are Pervaporation Membrane Simulation and Wastewater treatment. I have contributed in the field of science with impact full publications of Impact Factor around 50 and over 100 citations. Currently I am working as an Assistant Professor at Dept. of Chemical Engineering, Minhaj University Lahore. I am and will always be thankful to COMSATS family for providing me the platform.

Dr. ALI AHMAD
Assitant Professor



I did my BS in Chemical engineering from COMSATS in 2018. Soon after I got accepted for Masters in Oil and Gas Engineering at Brunel University London with a fully funded scholarship. Currently I am doing a PhD in Oil and Gas Engineering from University of Warwick. It was due to my academic achievements at CUI and the endless support from my mentors that made me believe in myself and pushed me to achieve big in life. I began my engineering journey with CUI, a journey that many women are scared to begin. I am forever grateful to CUI for being my first step in this journey and helping me in becoming a successful engineer and making my country proud.

Nokhaiz SABIR



Future Plans

The department is motivated to continuously improve its strengths with new initiatives. Some of which are,

- **Entrepreneurship:** The department aims to provide both entrepreneurship skills and opportunities in terms of loans for small scale business start-ups (SSBS). It will enable students to start earning at a very early stage after graduation and become job providers rather than job seekers.
- **Industry-Academia Linkages:** The department aims to strengthen its relations with industry using bilateral benefit approach. The department will offer services to boost up R&D of industries in return of funded projects, internships and training programs at different organizations.
- **New Programs:** The department have plans to start new programs based on emerging technologies and have completed fundamental working for start of programs i.e., food engineering, materials engineering etc.

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