

Engr. Faiz Ahmed Abro

Lecturer (BPS-18)

Department of Chemical Engineering,
Mehran University of Engineering & Technology, Jamshoro,
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Profile

I am a passionate and dedicated engineer with over 03 years of experience in Teaching. Committed to nurturing young minds, I am motivated to contribute my expertise and enthusiasm to my field of Chemical Engineering. My teaching approach focuses on bridging theory and practice, building an inclusive and interactive learning environment. With a research-oriented mindset, I strive to infuse my lectures with cutting-edge insights, empowering students to become confident and innovative engineers. I am excited about the opportunity to inspire and shape the next generation of professionals in this dynamic field.

Work Experience

Lecturer (BPS-18)

Department of Chemical Engineering | Mehran University of Engineering & Technology, Jamshoro

February 13, 2025 – Currently working

- To deliver lectures, conduct lab sessions, check assignments/laboratory reports, and grade periodical tests for undergraduate courses.
- To guide and counsel students in resolving academic and non-academic challenges related to their studies and personal development.
- To set question papers, evaluate answer scripts, conduct viva voce and invigilation duties during university examinations as assigned.
- To manage and operate departmental laboratories/studios and assist senior faculty members in research activities.
- To participate in administrative duties, disciplinary processes, and university-assigned responsibilities under relevant rules and regulations.

Research Associate

Examinations Department | Mehran University of Engineering & Technology, Jamshoro

September 17, 2023 – February 12, 2025

- To collaborate with faculty and administrative staff to streamline examination processes and enhance efficiency.

- To assist in the preparation and coordination of examination schedules, ensuring timely and organized execution.
- To provide technical support and training to staff and faculty on examination-related software and systems (QOBE Software).
- To prepare comprehensive reports and presentations on examination trends and outcomes for university stakeholders.

Teaching Assistant

Department of Chemical Engineering | Mehran University of Engineering & Technology, Jamshoro

June 21, 2021 – June 25, 2023

- Conducted and supervised laboratory practicals and theory classes, ensuring comprehensive understanding of complex chemical engineering concepts.
- Invigilated mid-term and final examinations for undergraduate students, maintaining academic integrity and fairness.
- Assisted the Chairperson for the development of Academia-Industrial Linkage Committee, fostering partnerships between the university and industry to enhance student learning and research opportunities.
- Facilitated the departmental Internship and Industrial Liaison Coordinator, securing effective and meaningful internships for undergraduate students.
- Provided Technical support during PEC Reaccreditation Visits at the Department.

Education

Master of Engineering (M.E) **2023**

Chemical Engineering | Mehran University of Engineering & Technology, Jamshoro
CGPA: 3.88/4.0

Bachelor of Engineering (B.E) **2021**

Chemical Engineering | Mehran University of Engineering & Technology, Jamshoro
CGPA: 3.85/4.0

Intermediate **2016**

Pre-Engineering | SZABIST Intermediate College, Larkana | BISE Larkana
Percentage: 87.55% (A1 Grade)

Matriculation **2014**

Science | SZABIST Intermediate College, Larkana | BISE Larkana
Percentage: 82.94% (A1 Grade)

Publications & Research Activities

1. **“Carbon Dioxide Capture Using Aqueous Amino Acid based Solvent: Experimental Studies & Neural Network Modeling”** published and presented at *ACS Regional MEA Conference – NYU, Abu Dhabi, UAE, February 4 – 7, 2024.*
2. **“Experimental Study of Physicochemical Properties of Aqueous Salt of Threonine Blended with Mono-ethanolamine Used as a Solvent for CO₂ Capture”** published and presented at *6th International Conference on Sustainability in Process Industries - UET Peshawar, October 19 – 20, 2022.*
3. **“Energy Optimization of a Natural Gas Plant using Aspen HYSYS V10”** published and presented at *3rd International Conference on Chemical Engineering - Mehran UET Jamshoro, September 22 – 23, 2021.*

Thesis Co-Supervised

1. **“Production of Bricks from Waste Plastic Water Bottles”** Group Lead: Mr. Atiq-ur-rehman, Co-supervisor: **Engr. Faiz Ahmed Abro**, Supervisor: Dr. Muhammad Shuaib Shaikh.
2. **“Production of Eco-Friendly Liquid Detergent from Rice Husk”** Group Lead: Mr. Zubair Ahmed Odho, Co-supervisor: **Engr. Faiz Ahmed Abro**, Supervisor: Dr. Muhammad Shuaib Shaikh.
3. **“Fusion of photocatalysis and membrane filtration for wastewater treatment”** Group Lead: Mr. Amir Ali, Ms. Tehmina Malika, Mr. Mahesh Kumar, Co-Supervisor: **Engr. Faiz Ahmed Abro**, Supervisor: Dr. Masroor Ahmed Abro (**In progress**)

Awards & Honors

Prime Minister Flood Hero Award 2022

Conferred by the Honorable Prime Minister of Pakistan
December 04, 2022

AIChE Freshman Recognition Award 2017

Awarded by American Institute of Chemical Engineers Society (AIChE) International
December 05, 2017

SZABIST Student of the Year Award 2016

Conferred by SZABIST Intermediate College, Larkana
April 20, 2016

Professional Memberships

Pakistan Engineering Council (PEC)

CHEM/21703 | Lifetime Membership | Registered Engineer

American Chemical Society (ACS)

33395016 | Premium Membership | <https://www.acs.org/faiz.ahmed>

American Institute of Chemical Engineers Society (AIChE)

9902130909 | Student Membership

Key Skills and Expertise

- ***Academic Research***
Expertise in conducting and analyzing academic research, particularly in the field of chemical engineering.
- ***Data Analysis***
Proficient in collecting, analyzing, and reporting data to support academic and administrative decision-making.
- ***Laboratory Management***
Skilled in managing laboratory operations, ensuring safety and proper functioning of equipment.
- ***Examination Coordination***
Experienced in coordinating examination schedules and processes, maintaining accuracy and compliance.
- ***Student Engagement***
Proficient in engaging and motivating students through effective teaching and advisory roles.
- ***Industrial Liaison***
Experience in bridging academia and industry to facilitate student internships and collaborations.
- ***Event Organization***
Adept at organizing and managing events, such as debates, conferences, and academic activities.

Leadership and Advisory Roles in Student Organizations

MUET Model United Nations Society

Co-Advisor | 2021-till date

American Chemical Society (ACS) MUET Students' Chapter

Teacher Coordinator | 2022-till date

Peace & Character Building Society (PCBS)

Coordinator/ Pioneer Member | 2018-till date

Mehran University Debating & Dramatic Society (MUDDS)

Co-Founder/ President | 2019 – 2023

American Institute of Chemical Engineers Society (AIChE) MUET Students' Chapter

President | 2019-2020

IEEE PES MUET Chapter

Chair | 2019-2020

SZABIST Students' Council

Head Boy | 2015-2016

Community Services

MUET Flood Relief Campaign

Student Lead | August 2022 | SDG 02, 06 & 13

MUET Flood Relief Campaign as initiated by Mehran University of Engineering & Technology, Jamshoro in response to the devastating floods in Pakistan during 2022. I was privileged to given responsibility to lead this campaign. Our efforts were recognized on national level and I was honored to receive PM Flood Hero Award by Hon. Prime Minister of Pakistan (Dec 2022).

The Big Event MUET

Lead Student Organizer / Head Volunteer | 2017-2021 | SDG 02, 03, 04, 10 & 13

The Big Event MUET is one the biggest community service event organized in Pakistan. With a theme of *One Big Day, One Big Thanks, One Big Event*, multiple community service events such as Plantation, Whitewash, Hospital Cleaning, Free Medical Camp, Cloths and Toys Distribution and One Day live life for Others (Orphans & Cancer Patients) are organized.

Mehran Ramzan Dastarkhuan & Ration Bags Distribution

Member Core Team | 2019-2024 | SDG 02

Every year during the holy month of Ramzan, Mehran University of Engineering & Technology, Jamshoro organizes Mehran Ramzan Dastarkhuwan at university and vicinity for the iftar of university guards and locals of vicinity. In addition to this, Ration Bags' stuff is purchased, packed and distributed by students among the needy families.

Contribution to Sustainable Development Goals (SDGs)

1st International Conference on Integrating Clean Safe Water and Well-being through Sustainable Initiatives (ICSWW)

Convener Stage Committee | October 09 – 11, 2024 | SDG 03 & 06

1st International Conference on Integrating Clean Safe Water and Well-being through Sustainable Initiatives (ICSWW) is going to be organized in October 2024 by ACS MUET Students' Chapter. This conference is funded by ACS Global Imperative Initiative (Gii) Grant. Being part of assistance team for securing this grant, I am privileged to utilize our resources for organizing a dedicated international conference on SDG 03 & 06.

MUET SDGs Avenue

Project Lead | January 2023 | SDG 04

As the Project Lead of the MUET Sustainable Development Goals (SDGs) Avenue, I spearheaded an innovative initiative that transformed the main road of Mehran University of Engineering & Technology (MUET) into a vibrant symbol of sustainable development and global consciousness. This transformative project, funded by the esteemed Mehran University Alumni Association, aimed to raise awareness about the United Nations' Sustainable Development Goals (SDGs) among the university community and make MUET a centre for SDG-centric activities.

1st Pakistan SDGs Summit 2022

Chief Organizer | MUET Jamshoro

1st edition of Pakistan Sustainable Development Goals (SDGs) Summit was organized at Mehran University of Engineering & Technology, Jamshoro on March 15, 2022. This conference was an initiative to highlight the significance of sustainable practices to act locally for the achievement of sustainable development goals. Variety of goals were discussed through open sessions and panel discussions with experts.

United Nations Development Program (UNDP) Committee at MUETMUN

Director Trainings | MUETMUN-19

As an academic curator of model United Nations agendas and Director of Trainings, I was privileged to propose the launching of dedicated committee (UNDP) for discussion and resolutions of demanding issues such as Clean water sanitation, energy crises and climate change.

This committee extensively helped students to come up with solution oriented debates on agendas that are linked with SDGs.

Foreign Travel Grants

ACS Professional Meeting Grant

February 2024 | 2,000 USD

It was honor to receive American Chemical Society (ACS) professional meeting grant of worth 2,000 USD. This grant help me to take part in ACS Regional MEA Conference held at New York University, Abu Dhabi, UAE during February 4 – 7, 2024.

English Proficiency

Language	Listening	Reading	Writing	Speaking
English	C1	B2	C1	C1

Trainings/Workshops/Conferences/Seminars

- ***1st International Conference on Women Development in Engineering, Science & Technology (WD-EST)***
Organized/Stage Secretary | October 03-05, 2023 | Mehran UET Jamshoro
- ***1st MUET Chemical Engineering Expo 2023***
Coordinator, Project Exhibition | September 20, 2023 | Department of Chemical Engineering, MUET
- ***Mehran University & Milkar Plantation Drive 2023***
Lead Organizer | March 31, 2023 | Mehran UET Jamshoro
- ***Three Days Workshop on Computational Fluid Dynamics with ANSYS Fluent***
Attendee | February 07 – 09, 2023 | Department of Chemical Engineering, MUET
- ***One Day Seminar on International Reducing CO₂ Emissions Day 2023***
Organizer | January 30, 2023 | Department of Chemical Engineering, MUET
- ***One Day Seminar on Time Management***
Organized | December 24, 2022 | Department of Chemical Engineering, MUET
- ***One Day Seminar on Food Science & Technology***
Organizer | November 17, 2022 | Department of Chemical Engineering, MUET

References

Prof. Dr. Tauha Hussain Ali

Vice Chancellor

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Prof. Dr. Khadija Qureshi

Chairperson / Professor

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26/05/2025