

# Attique Arshad

## Lecturer

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Address: Islamabad, Pakistan

### PROFILE:

Holds the hands-on knowledge in the field of engineering and passionate to share the professional, academic knowledge and organizational skills towards building a motivated and skilled generation.

Have been a key participant in delivering the key milestones and objectives in the engineering domain. Have demonstrated my experience by working in public and private organizations and staying up to date with the recent technologies through the teaching and academic participation.

Hold experience working in Pakistan and Middle East (Qatar).

### EXPERTISE (TOOLS & METHODOLOGIES):

**Methodologies:** Problem based learning, Continuous assessment and feedback, Industry partnership

**Technologies:** Simulation software, Computer aided design, Learning management system

### JOB EXPERIENCE: ACADEMIC

Lecturer, Comsats University Islamabad, Wah Campus (2023 – Present)

<https://www.comsats.edu.pk>

Responsibilities:

- Courses taught: Thermodynamics, Heat and Mass Transfer, Mechanical Vibrations and Finite Element Analysis  
Conducted quizzes, assignments, exams and their evaluation
- Member of “Outcome Based Education” and “Final Year Design Project” committees  
Revised CLOs mapping with relevant PLOs keeping in view proper level of cognitive, psychomotor and affective domain.

Teaching Visiting Faculty (TVF), National University of Sciences and Technology, Islamabad (2020-2023)

<https://nust.edu.pk>

Responsibilities:

- Courses Taught: Mechanical Vibration and Thermodynamics  
Assisted senior teachers in conducting quizzes/assignments and lecture preparation

Graduate Assistant, University of Engineering and Technology, Lahore (2018-2020)

<https://www.uet.edu.pk>

Responsibilities:

- Maintained and commissioned lab equipment as a member of Lab Development Committee
- Demonstrated lab sessions of power plants, energy resources and fluid mechanics

### JOB EXPERIENCE: PROFESSIONAL

Health and Safety Division, Supervisory Role (2003-2005)

<https://www.descon.com.pk/>

Responsibilities:

- Participated in annual shutdown of Qatar Gas as project area engineer and served as HSE Engineer in Dolphin Energy Project.
- Performed job safety analysis, risk assessment in confined spaces and carried out toolbox talks.

Commissioning and Operations Supervisor, Pakistan Atomic Energy Commission (2008 - 2017)  
<https://paec.gov.pk>

**Responsibilities:**

- Monitoring of process parameter values on DCS and troubleshooting of transients keeping in view the historical trends
- Preparation and review of operating manuals of process systems
- Reporting operational abnormalities to the maintenance department and follow up to ensure proper response and work continuity

Operation and Maintenance Engineer (2003-2004)  
<https://ghazifabrics.com/>

**Responsibilities**

- Included operation and maintenance of caterpillar 3616 diesel generators.

**EDUCATION:**

- MSc Thermofluid Engineering, UET Lahore (2020)
- Post Graduate Diploma in Thermal Power Engineering, UET Lahore
- Post Graduate Diploma in Nuclear Technology, KINPOE Karachi
- BSc Mechanical Engineering, UET Lahore

**TRAININGS:**

- Training on Outcome Based Education from UET Lahore (2020).
- Safety officer training, Qatar Gas DBN project, Qatar (2005)
- Training in construction technology and management by Descon, Pakistan (2005).

**AWARDS:**

- Won research funding from National Grassroot ICT Research Initiative (NGIRI) 2023-24 for undergraduate final year project as supervisor (COMSATS University, Wah Campus)
- Best Graduate Assistant award 2019 (UET, Lahore)
- Meritorious services award 2017 (PAEC, Islamabad)

**PUBLICATIONS:**

- Optimal Treatment of Tumor in Upper Human Respiratory Tract Using Microaerosols." ACS Omega (2024)
- "Hydraulic characterization of Diesel, B50 and B100 using momentum flux." Alexandria Engineering Journal (2021)
- Dispersion stability and rheological characteristics of water and ethylene glycol-based zinc oxide nanofluids. Thermal Science (2020)
- Preparation and dispersion stability of aqueous metal oxide nanofluids for potential heat transfer applications: a review of experimental studies. Thermal Analysis and Calorimetry (2020)

**COMPUTER SKILLS:**

- Primavera

- Microsoft Project
- Microsoft Office
- ANSYS
- AutoCAD

***AFFILIATIONS:***

- Affiliated with Pakistan Engineering Council

***VOLUNTEER ACTIVITES:***

- Organized Badminton games during university sports week
- Served as community services mentor of undergraduate students