

A dedicated professional working for 9+ years with strong commitment towards the social and academic growth and development in civil engineering.

Professional Experience

Lecturer, Civil Engineering Department, NED University of Engineering & Technology (2019 – Present)

Roles & Responsibilities

- ✓ Preparing and Delivering lectures (Physical and Virtual), Organizing and Moderating National and International Seminars, conducting laboratory sessions, stimulating and guiding class discussions
- ✓ Preparing and Grading open ended labs, assignments, complex engineering problems and examinations
- ✓ As an Academic Counsellor, advising students on academic and related matters
- ✓ Attending departmental and faculty meetings, conferences and seminars
- ✓ Co-Supervising final year projects of undergraduate students
- ✓ Conducting research and undertaking consultancies in a particular field of knowledge
- ✓ Participating in the curriculum review committee
- ✓ As Departmental OBE Team Member, Preparing and Documenting OBE records of the program and presenting during Accreditation Visits
- ✓ As Focal Person of Departmental Health, Safety and Environmental Committee, arranging regular safety audits and drills, assisting the implementation of safety measures, and providing awareness.

Courses Taught in Undergraduate

- ✓ Essentials in Construction Project Management
- ✓ Modern Aspects of Construction Project Management
- ✓ Engineering Economic Analysis
- ✓ Accounting and Financial Management

Laboratory sessions conducted

- ✓ Fluid Mechanics
- ✓ Transportation Engineering
- ✓ Water Resources and Management
- ✓ Soil Mechanics

Contracts & Coordination Engineer – Saita Pakistan Pte. Ltd., Karachi (2017 – 2019)

Performed coordination of following projects and conformed its requirements according to the contract agreements:

- ✓ MBR waste water treatment plant at PKLI
- ✓ Civil and Earth Works for Construction of Well sites & Access Road at Tajjal Concession for ENI Pakistan Ltd.
- ✓ Civil & Associated Works for Landhi Grid Station Project for Siemens TP-1000.

Education

Ph.D. in Civil Engineering (Area: Energy Efficiency) – NEDUET (2021 – Present)

Ph.D. Title: *Energy Efficient Housing Designs and Guidelines using Simulation-Living Lab- Immersive Visualization based Integrated Design Process*

M.E.M in Construction Management – NEDUET (2016 – 2018)

Independent Study Project (ISP) Title of Research: *Correlation between Construction Project documentation and Effectiveness of Arbitration*

B.E in Urban and Infrastructure Engineering – NEDUET (2012 – 2015)

Distinction: First Position (Gold Medalist) –

Affiliations

Local Council & Central Council Member of the Institution of Engineers Pakistan (IEP) Karachi Centre
Executed/Managed and supervised the project of '*Professional Development of Women Engineers*'.

Being part of the Women's Committee of IEP, managed and supervised the project of 'Professional Development of Women Engineers'. This project aims to enhance skills in women engineers so that they can contribute to the field of engineering within their social boundaries through part-time and homebased opportunities. Nowadays working to launch an online business under the platform of IEP(KC), so that women (especially from engineering background) can become financially stable while staying at home.

Moderated and organized following events:

- ✓ International Building energy efficiency symposium iBEES-2023 held on 12-13th May 2023
- ✓ International Women's Day Celebration- Theme: DigitALL Innovation and Technology for Gender equality 18th May 2023
- ✓ 9th National Seminar on Occupational Health, Safety and Environment- Theme "HSE Rules are your Best Tools" held on 29th and 30th November 2019 Organized by IEP
- ✓ 10th International Civil Engineering Conference on "Technological Transformation of Civil engineering" on 23 & 24th Feb 2019 (Moderation/Organizing Committee)
- ✓ 11th International Civil Engineering Conference on "Integrating Innovation & Sustainability in Civil Engineering" held on 1st April 2021
- ✓ 12th International Civil Engineering Conference on "Integrating Technology in Civil Engineering" held on 13 & 14th May 2022 (Moderation & Session Chair)
- ✓ 10th ICOHSE International Conference on Occupational Health, Safety and Environment- Theme "Life with Safety" held on 9th and 10th December 2022 Organized by IEP

Deputy Chair (Female) & Country Representative of Asian Civil Engineering Coordinating Council (ACECC)
Future Leaders Forum (FLF) – strives to promote and advance the science and practice of civil engineering and related professions for sustainable development.

Research Publications & Projects

Arif, F.; Saeed, F. (2021). Role of Construction Project Documentation for Effective Arbitration Process. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 13(2), 04521006.

[https://doi.org/10.1061/\(ASCE\)LA.1943-4170.0000466](https://doi.org/10.1061/(ASCE)LA.1943-4170.0000466)

Azhar, N., Saeed, F.; Arif, F. (2022). Conceptual Design of Residential Buildings for Daylight Employing Contemporary Best Practices. 4th Conference on Sustainability in Civil Engineering (CSCE'22), Capital University of Science and Technology.

https://csce.cust.edu.pk/archive/CSCE_22_conference_proceedings/Paper%20ID.22-341.pdf

Arif, F., Saeed, F., & Azhar, N. (2023, March). Assessment of Passive Design-Based Energy Efficiency Improvement Opportunities Through Energy Audit of Residential Units. In 2023 6th International Conference on Energy Conservation and Efficiency (ICECE) (pp. 1-4). IEEE.

https://ieeexplore.ieee.org/abstract/document/10092497?casa_token=ScfmhhYTtJEAAAAA:fb5nS0t9NsX4uJYCyY4y3frlVjUeT-1z_jBxIRfHcLnR62s3eLRSFiFkklS53mrpFBt0FrLIQg

Editorial Member – "Green Building Code Provisions" (Funding Agency: European Union, Switch Asia in collaboration with UN-Habitat)

<https://www.switch-asia.eu/resource/model-green-building-code-provisions-for-the-five-million-housing-programme-in-pakistan/>

Other research projects:

- ✓ Development of Energy Efficient Housing Design for Karachi using Living Lab – Virtual Reality Integration (Funding Agency: Sindh HEC)
- ✓ Development of Guidelines for Energy Efficient Housing Units (Funding Agency: HEC)

Software Proficiency

- ✓ AutoCAD - Proficient
- ✓ MS Project - Intermediate
- ✓ Open Studio - Intermediate
- ✓ Primavera- Intermediate
- ✓ Sketch up- Intermediate
- ✓ Revit - Intermediate
- ✓ MS Office - Proficient