

Rizwan Ullah

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Google Scholar: <https://scholar.google.com/citations?user=ZJ82WZsAAAAJ&hl=en>

Education

Jan 2023 - July 2025

MS Structural Engineering

Comsats University Islamabad, Abbottabad Campus Abbottabad, Pakistan

Thesis: Mechanical Performance Analysis of Concrete Cracking behavior using Finite Element Analysis

Tools: ABAQUS / UTM / EXCEL

GPA: 3.67/4.0

September 2016 - December 2020

BS Civil Engineering

University of Engineering & Technology (UET) Peshawar, Pakistan

Thesis: Experimental Findings and Numerical Validation of Response of Piled-Raft Foundation System under Vertical Loading

Tools: Plaxis 3D / Abaqus

GPA: 3.14/4.0

Journal Publications

1. Husnain, A., Iqbal, M., Waqas, H.A., El-Meligy, M., Javed, M.F. and Ullah, R., 2024. Machine learning techniques for predicting the peak response of reinforced concrete beam subjected to impact loading. Results in Engineering, p.103135.
<https://doi.org/10.1016/j.rineng.2024.103135> (**Q1, IF=6.5**)
2. Ashraf, M., Nazar, S., Iqbal, M., Yang, J., Ullah, R. and Hasan, M.U., 2024. Exploring the rheological and mechanical properties of alkali activated mortar incorporating waste foundry sand: A comprehensive experimental and machine learning investigation. Results in Engineering, 24, p.102973.
<https://doi.org/10.1016/j.rineng.2024.102973> (**Q1, IF=6.5**)

Conference Presentaion

1. 1st International Conference on Recent Advances in Civil and Earthquake Engineering, held on 8th October, 2021 at University of Engineering & Technology, Peshawar, Pakistan
2. 5th International Multidisciplinary Research Conference (IMRC 2019) held on 29 to 31st October, 2019 at Shaheed Benazir Bhutto Women University, Peshawar, Pakistan.
3. National Poster and Model Competition on Ultra Low-Cost Housing held on 25 March, 2019 at University of Management and Technology (UMT), Lahore, Pakistan.
4. 2nd Pak-Turk International Conference on Emerging Technologies in the field of Science and Engineering held on 11-12 March, 2019 at Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan.

Soft Computing Skills

Structural Tools: ETABS / Abaqus / SAP2000 / STAADPRO / QGIS / IDEASTATICA

Programming tools: MATLAB, COMSOL, PYTHON

BIM Tools: Autodesk Revit / Autodesk 360 / Civil 3D / Navisworks / AutoCAD etc

Courses Studied

Geotechnical Engineering / Advance Soil Mechanics / Engineering Properties of Soil / Earth Retaining Structures / Foundation Engineering / Engineering Geology and Seismology / Hydraulics of Ground Water / Structural Dynamics and Earthquake Engineering / Structural Analysis / Reinforced Concrete Design / Transportation Engineering etc.

Professional Experience

Structural Engineer

**Anson Business Solutions
(Pvt.) Ltd.** – I-9/2, Street 10,
Islamabad

Duration: *January 2021 –
Present*

- **Key Responsibilities and Accomplishments:**
- Responsible for the **structural design and analysis** of residential, commercial, and industrial projects in compliance with relevant codes and standards (ACI, BS, Eurocode, and Building Code of Pakistan).
- Prepared **detailed design calculations, drawings, and technical documentation** for reinforced concrete (RC) and steel structures.
- Conducted **structural modelling and finite element analysis (FEA)** using software tools such as **ETABS, SAFE, STAAD Pro, and SAP2000**.
- Coordinated with architects, MEP engineers, and contractors to ensure **design integrity, constructability, and project efficiency**.
- Performed **structural assessments, retrofitting analysis, and optimization of structural systems** for cost-effective and sustainable design solutions.
- Contributed to the **development of energy-efficient and sustainable housing concepts**, integrating **BIM (Building Information Modelling)** into design and documentation processes.
- Supported proposal preparation, BOQ development, and technical submissions for various national and research-based projects.

Certifications

1. Microsoft office word specialist certificate
2. Talent award from Board of Intermediate and Secondary Education, Mardan in grade 12th on behalf of 3rd position holder at district level
3. Honor award from Board of Intermediate and Secondary Education Mardan in Grade 10th
4. 2nd position holder in National Poster and Model competition at University of Management and Technology (UMT), Lahore Pakistan

English Language Certification

	Overall	Writing	Reading	Speaking	Listening
IELTS	6/9	6.0	6.0	5.5	6.0
		Literacy	Comprehension	Conversation	Production
Duolingo English Test	130/160	135	130	120	120

References

1. **Dr. Muhammad Faisal Javed**
Professor/Head of the Department of Civil Engineering,
GIKI Swabi, Pakistan
Email: arbabfaisal@giki.edu.pk
Relation: Master Research Co-Supervisor
2. **Dr. Sardar Kashif-Ur-Rehman**
Associate Professor at the Department of Civil Engineering,
Comsats university Islamabad, Pakistan
Email: skashif@cuiatd.edu.pk
Relation: Teacher
3. **Dr. Kashif Mehmood**
Professor at the Department of Civil Engineering,
Comsats University Islamabad, Pakistan
Email: mjaved@uetpeshawar.edu.pk
Relation: Teacher/ supervisor