Muhammad Yousuf Iqbal

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Department of Civil Engineering, NED University of Engineering & Technology, Karachi, Pakistan

EDUCATION

- **Ph.D. in Structural Earthquake Engineering**, NED University of Engineering & Technology – *In Progress*
- **M.Engg. in Structural Engineering**, NED University of Engineering & Technology
- **B.E. in Civil Engineering**, NED University of Engineering & Technology

PROFESSIONAL EXPERIENCE

Lecturer, Department of Civil Engineering *March 2019 – Present*

NED University of Engineering & Technology, Karachi

- Teaching undergraduate theory and practical courses, including *Engineering Mechanics, Mechanics of Solids, Engineering Surveying I & II, and Transportation Engineering II*.
- Supervising undergraduate projects in structural behavior and surveying applications.
- Supporting laboratory instruction, academic advising, and departmental academic activities.

Lecturer, Department of Civil Engineering *Sept 2018 – Feb 2019*

Sir Syed University of Engineering & Technology, Karachi

- Delivered lectures and supervised laboratory work in *Design of Structures, Soil Mechanics I & II,* and *Engineering Materials.*
- Engaged in course planning and evaluation of undergraduate student performance.

RESEARCH EXPERIENCE

- **Ph.D. Research Title:** *Assessment of Existing Methods for Seismic Design of RC Beam-Column Connections*
  - Conducted **full-scale experimental testing** of RC beam-column joint specimens at the **Cowasjee Earthquake Study Centre**, gaining hands-on experience in instrumentation, cyclic loading, and data acquisition.
  - Developed and validated **3D finite element models** in **ATENA** for monotonic and cyclic loading conditions, with ongoing efforts to address convergence issues in cyclic analysis.
  - Comparative study of experimental, analytical, and numerical methods for evaluating seismic performance of RC joints.

RESEARCH INTEREST

- Nonlinear Finite Element Modeling of RC Structures
- Seismic Behavior of RC Beam-Column Joints
- Experimental Structural Testing and Instrumentation
- Damage Mechanics and Constitutive Modeling in Concrete and Steel
- Performance-Based Seismic Design and Assessment
- Strengthening and Retrofitting of Reinforced Concrete Members

REFERENCES

Available upon request