Dr. Fawad Ahmed Najam

Assistant Professor, Structural Engineering
NUST Institute of Civil Engineering (NICE), National University of Sciences and Technology (NUST)
H-12, Islamabad

Academic Qualifications

- Doctor of Engineering, Structural Engineering,
  Asian Institute of Technology, Bangkok, Thailand
- MS Structural Engineering
  National University of Sciences and Technology, NUST, Pakistan
- B.Sc. Civil Engineering
  University of Engineering & Technology, Taxila, Pakistan

Fields of Expertise

- Performance Based Seismic Design and Evaluation
- Finite Element Methods and Dynamic Analysis of Buildings
- Nonlinear Modeling and Analysis of Tall Buildings and Special Structures
- Structural System Development and Evaluation
- Seismic Hazard Assessment and Engineering Seismology
- Investigation of Failures, Design review and Remedial Measure
- Development of Software for Engineering Applications
- Professional Training and Human Resource Development and Capacity Building

Current Designations

- Assistant Professor,
  NUST Institute of Civil Engineering (NICE), Islamabad

Professional Experience

- Over ten years of experience in the conception, planning, analysis, design, detailing and evaluation of multistory buildings and special structures.

Positions in Projects

- Performance-based Design (PBD) Expert
- Seismic Hazard and Risk Specialist
- Structural Engineering Consultant

Selected Projects

- Performance-based Evaluation of a 20-storey, 33-storey and 44-storey Mixed Occupancy Buildings in Bangkok, Thailand.
- Site-specific Probabilistic Seismic Assessment (PSHA) and its Design Implications at Pakistan Gulpur Hydropower Project, District Kotli, AJK.
- Material- and Component Level Evaluation and Testing of Baltit Fort, Hunza, Pakistan.
- Probabilistic Seismic Hazard Assessment for Metro Manila, Philippines.
- Post-earthquake Damage Assessment of High-rise Buildings in Manila, Philippines.
- Structural Analysis and Design of Nigeria Crossing Bridge
- Seismic Hazard Assessment and Mitigation of Seismic Risk in Bangkok, Thailand.
- Structural Performance Based Evaluation of Shangri-La at The Fort, Philippines.
- Testing and Evaluation of CSI ETABS 2013, CSI ETABS 2016, CSI Plant and CSI COL.
- Review of Draft Myanmar National Building Codes (MNBC).