



# Tariq Aziz

## Strengths & Skills

- ✓ ArcGIS
- ✓ AutoCAD
- ✓ ETABS
- ✓ GRASP
- ✓ Minitab
- ✓ Microsoft Office

## Experience 3 years

- Department of Civil Engineering, NED University of Engineering & Technology** Aug 2016 - Present  
Lecturer
- Department of Civil Engineering, NED University of Engineering & Technology Karachi** Jan 2015 - Jul 2016  
Visiting Faculty Member
- Department of Earthquake Engineering, NED University of Engineering & Technology Karachi** Jan 2014 - Jul 2016  
Research Assistant

## Projects

- Testing of Concrete & Steel at Elevated Temperatures (Department of Earthquake Engineering, NED University of Engineering & Technology Karachi)**  
Furnaces, UTM, Data Acquisition System, Extensometer, Compressometer, LVDTs
- 2-D Frame Analysis Software (NED University of Engineering & Technology Karachi)**  
MATLAB
- Fire Spread Simulation Model (NED University of Engineering & Technology Karachi)**  
GIS, Microsoft Visual Studio, GAMA Simulation Platform, GAML, C#, MATLAB
- Disaster Management Information System (NED University of Engineering & Technology Karachi)**  
Microsoft Office, Python, PHP

## Work History

Department of Civil Engineering, NED University of Engineering & Technology	Aug 2016 - Present (2 months)
Lecturer	Karachi, Pakistan
Department of Civil Engineering, NED University of Engineering & Technology Karachi	Jan 2015 - Jul 2016 (1.5 years)
Visiting Faculty Member	Karachi, Pakistan
Department of Earthquake Engineering, NED University of Engineering & Technology Karachi	Jan 2014 - Jul 2016 (2.5 years)
Research Assistant	Karachi, Pakistan

## Contact Info

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🏠 Gulistan-e-Johar Karachi  
Karachi, Pakistan

## Academics

- ME (Structural Earthquake) | 2016**  
NED University of Engineering & Technology, Karachi
- BE (Urban) | 2014**  
NED University of Engineering & Technology, Karachi

## Workshops & Trainings

- National Workshop on "Impact of Tsunami and other Coastal Hazards on Local Economy" | 2016
- 3-Days Training on "Effective Teaching Practices" | 2016
- 2-Days international workshop on "Recent Advancements in Earthquake Engineering and Seismology in South Asian Countries" | 2016
- 1-Day Workshop on "Becoming a High Impact Leader" | 2015
- Lecture on "Seismic Vulnerability of Masonry Buildings and Damage Estimation for Seismic Risk Studies" by Prof. Marie Jose Nollet | 2014

## Functional Areas

- Civil Engineering
- Structural Engineering
- Earthquake Engineering
- Fire Spread Simulation

**Testing of Concrete & Steel at Elevated Temperatures****Jan 2016 - Oct 2016 (9 months)****Company:** Department of Earthquake Engineering, NED University of Engineering & Technology Karachi**Tools:** Furnaces, UTM, Data Acquisition System, Extensometer, Compressometer, LVDTs

Concrete cylinders and steel bars of different diameters were first heated to required temperatures ranging from 100°C to 1000°C in furnace and then tested to assess the residual properties (Strength, Stress-Strain relationship, Modulus of Elasticity, Poisson's Ratio etc.) of these materials after exposure to elevated temperatures.

**2-D Frame Analysis Software****Aug 2015 - Dec 2015 (4 months)****Company:** NED University of Engineering & Technology Karachi**Tools:** MATLAB**Fire Spread Simulation Model****Aug 2014 - Feb 2016 (1.5 years)****Company:** NED University of Engineering & Technology Karachi**Tools:** GIS, Microsoft Visual Studio, GAMA Simulation Platform, GAML, C#, MATLAB

Suggested and developed a model for the simulation of mass fire spread in urban areas after an Earthquake

**Disaster Management Information System****Jan 2014 - Jun 2014 (5 months)****Company:** NED University of Engineering & Technology Karachi**Tools:** Microsoft Office, Python, PHP

Developed a structure of a software package for disaster management information system. This system may be used by the Disaster Management Authorities in the response phase during the disaster.

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