

SAMRA MASOOD

B44, APP Society Block 8, Gulistan e Jauhar, Karachi

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OBJECTIVE

- To work in the field of Civil engineering that will make the best use of my skills and improve my knowledge.

EDUCATION

- 2020 to present: Doing PhD Civil (structures) from NED-UET
- 2015 to 2018: M.E in Civil (structures) from NED-UET with a CGPA of 3.6
- 2010 to 2013: Did graduation in civil engineering from NED-UET – scored 84.9% and a CGPA of 3.7 in last exam along with 6th rank in the department of civil
- 2008-2010: A-levels from St. Patrick's High School – scored 6As and 1B; received 2 gold medals and a silver
- 2007: O levels from Dawood Public School – scored 8As and 1B

WORK EXPERIENCE

- Lecturer (Regular), Department of Civil Engineering, NEDUET (July 2022 – Present)
 - Taught different subjects including structural Analysis, Drawing and Chemistry for Civil Engineerings
 - Member Departmental OBE Team
 - Incharge Durability Lab
 - Academic Counsellor
- Lecturer (Adhoc), Department of Civil Engineering, NEDUET (Apr 2019 – Jul 2022)
 - Taught different subjects
 - Member Departmental OBE Team
 - Academic Counsellor
- Visiting Faculty, Department of Civil Engineering, NEDUET (Sep 2018 – Apr 2019)
- Research Assistant, Earthquake Engineering, NEDUET (Aug 2015 – Jun 2018)
 - Studied higher modes response of Masonry infilled RC frames
 - Assisted in vetting of Ocean I building, Karachi
 - Seismic Tier I assessment of Artistic Milliners Buildings, Karachi
- Junior Engineer (Structures), Halcrow Pakistan (May 2014 – Aug 2015)
 - Assisted in designing O/H & U/G tank of FC College Lahore
 - Assisted in reviewing Interchange design in Jubail, KSA

- Worked on FC College Cafeteria Lahore (front elevation & pergola design)
- Assisted in USAID school projects (branding, marking, furnishing planning)
- Trainee Engineer, Bridge Department, Halcrow Pakistan (Mar 2014 – May 2014)
- Intern, Structures Department, NESPAK Pvt. Ltd. (May 2012 – Jun 2012)

TECHNICAL SKILLS

- AUTOCAD software certified by Autodesk and IOP Certified Course in Computer-Aided Project Management with MS Project
- Proficient in STAAD Pro, Seismostruct, Response2000, GRASP, OPENSEES, SAP & ETABS
- Programming knowledge: HTML, FORTRAN, GW-Basic
- Other tools: SPSS, Eagle Point, Minitab, MS Office

RESEARCH PUBLICATIONS

- Dynamic Compressive Strength of Recycled Aggregate Concrete
Authors: Shamsoon Fareed, Asad-ur-Rehman Khan, Samra Masood
International Journal of Materials, Volume 8, 2021, Pages 56-61, E-ISSN: 2313-0555
- Review of Infill Wall modelling techniques: Macro and Micro models
Authors: Fatima Khalid, Samra Masood
4th Conference on Sustainability in Civil Engineering (CSCE'22)

INDEPENDENT STUDY PROJECT (MASTERS)

- Higher Mode response of Masonry Infilled RC Frames
 - Designed frames subjected to 80 far-field ground motions using incremental dynamic analysis
 - Studied higher mode response of intermediate moment resisting frames with weak infills

FINAL YEAR PROJECT

- Seismic Vulnerability Assessment using Dynamic and Pushover Analysis
 - Detailed vulnerability assessment of three existing RC buildings (2, 3, and 4 stories)
 - Compared results from Adaptive Pushover vs. Dynamic Time-History analysis

OTHER SKILLS

- Built scale-down structural model of a double-storey building
- Organized multiple events (Spring Festival 2012, Welcome Party at NEDUET)
- Member of Green Society, promoting environmental awareness
- Associate Editor of Civil Departmental Magazine 'The Silver Lining 2013'

- Organized November Jam at St. PATS – developed managerial and leadership qualities

REFERENCES

- Personal and professional references gladly furnished upon request.