

Ayesha Ayub

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EDUCATION

- **PhD (Civil Engineering):**
In Progress
- **Masters (M. Engg):**
In Civil Engineering (**Transportation Engineering**) with **4.0 CGPA** from NEDUET- 2020.
- **Bachelor of Engineering:**
In Urban and Infrastructure Engineering with **3.7 CGPA (Position Holder)** from NEDUET-2011. (**PEC Registration No. URBAN/ 72**).
- **Intermediate (Pre-Engineering):** With **A grade (73.36%)**.
- **Matriculation:** With **A grade (78.11%)**.

PROFESSIONAL EXPERIENCE

- **Lecturer** at Urban and Infrastructure Engineering Department, **NED-UET (Jan 2021 to Present)**.
- **Research Assistant** at Civil Engineering Department, **NED-UET: (July 2018 to Dec 2020)**.
- **Past:** Assistant Product Manager.

INTERNSHIP:

Internee: **National Engineering Services (NESPAK)** Structure Section (Karachi Division), 2010.

During internship worked majorly on analysis and design of “National Bank of Pakistan-Hala Branch” which includes:

- Load calculation of substructure and superstructure using both manual method and Grasp software. Structural designing. Assisted in design of RCC slabs, columns, beams and foundations by manual calculations as well as by using structural Engineering software. Slope deflection, stress, flexural check of the Structure.

PROJECTS

- **DOCTOR OF PHILOSOPHY (PhD):** “Development of Ultra High Strength Concrete (UHSC) for use in Modelling of Airfield Pavements”.
- **INDEPENDENT STUDY PROJECT:** “Rutting Behaviour of Recycled Aggregate Asphalt Mixes”.
- **FINAL YEAR PROJECT:** “Strengthening of Highway Bridge”.

WORKSHOP/ TRAININGS

- International Seminar on Construction 4.0 on March 2022.
- 5th International Conference on Urban and Regional Planning (CURP), 2021.
- Seminar on Building Conservation by Mr Randolph Langenback in Karachi at NEDUET on 5th March 2019.
- Seminar by National Aeronautics and Space Administration on 'Reveal the Unknown' by Hibah Rahmani on 29th April' 2019.
- Seminar on Numerical modelling for coastal applications and marine forecasting by Saima Ejaz 18th December, 2018.
- “10th International Civil Engineering Conference” held at IEP, Karachi on 23rd and 24th February 2019.
- “1st South Asian Conference on Earthquake Engineering-SACEE 2019” held at Karachi on 21st and 22nd February 2019.
- Attended 1-Day International Workshop on Traffic Microsimulation held on 22nd DEC 2015 at NEDUET.
- Attended a 2-Day International Workshop on Road Safety Analysis & Modelling held on 17th -18th Dec 2015 at NEDUET.
- Attended seminar on “Retrofitting Strategies for Ageing Roadway Bridges”.
- Attended workshop on “Home Based Employment for Women Engineers-A Panel Discussion”.

RESEARCH PUBLICATION

- *Behaviour of Limestone Calcined Clay Cement (LC3) Concrete using Glass Powder, Journal Publication, 2022 (Under Review).*
- *Rutting Performance of Cement Treated Base and Hot Mix Asphalt Layer in Flexible Pavements Containing Recycled Concrete Aggregates, Journal Publication, 2021 (Under Review).*
- S.U Khan, A. Ahmed, S. Ali, A. Ayub, *Use of Scrapped Rubber Tires for Sustainable Construction of Manhole Covers, Journal of Renewable Materials, 2020.*
- Ayub, T., S.U. Khan, and A. Ayub, *Analytical model for the compressive stress–strain behavior of PVA-FRC. Construction and Building Materials, 2019. 214: p. 581-593.*

COMPUTER SKILLS

AutoCAD 2D & 3D, Civil 3D, SAP 2000, Eagle point, Arc GIS, MS Office and MS Project.

REFERENCES

Will be furnished upon request.