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Ms. Nafisa Tabassum

Lecturer, Department of Civil Engineering

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Biography

Nafisa Tabassum is a **Lecturer in the Department of Civil Engineering at United International University (UIU)** , where she has been teaching **since March 1, 2021**. She is actively involved in **curriculum development and academic committees** , serving as a **member of the curriculum and accreditation committees**. Prior to joining UIU, she worked as a **Lecturer in the Department of Civil Engineering at Stamford University Bangladesh from January 2019 to February 2021**. She holds an **M.Sc. in Civil Engineering (Transportation Engineering)** from **Bangladesh University of Engineering and Technology (BUET)** and an **M.Sc. in Applied Statistics and Data Science (MASDS)** from **Jahangirnagar University**. She completed her **B.Sc. in Civil Engineering** from **BUET** , specializing in **Structural Engineering** with a minor in **Transportation Engineering**. Her research expertise lies in **transportation planning, machine learning applications in transportation, urban mobility, and service quality assessment**. For her **M.Sc. in Civil Engineering** , she developed **trip production and attraction models for urban educational institutions in Dhaka** using **XGBoost and Random Forest** , comparing their performance with traditional approaches. Her **MASDS research** focused on **demographic-based tree modeling** to analyze **public bus service quality in Dhaka** , providing insights into service variations across user segments and offering data-driven policy recommendations. Her **undergraduate thesis** focused on **built-up steel-concrete composite sections** , where she analyzed material property relationships, validated numerical modeling using Abaqus, and evaluated the reliability of design codes such as **AISC and EUROCODE**. A conference paper based on this work received the **Best Paper Award in the Structural Engineering Division**. Beyond academia, she gained industry experience as a **Research Assistant** in the **“Building Code Implementation and Enforcement Strategy”** project at BUET, where she worked on practical applications of engineering policies and regulations. She is proficient in **Python, R, STATA, SPSS, VISSIM (for traffic simulation), Abaqus (for structural modeling), SAS, and Minitab**. Her technical expertise includes **machine learning frameworks, statistical analysis methods, and transportation modeling techniques**. With a strong background in **data-driven transportation research and engineering applications** , she continues to contribute to academia through research, teaching, and curriculum development.

Education

- **MSc.** , Transportation Engineering, Bangladesh University of Engineering and Technology.
- **Masters in Applied Statistics and Data Science** , Jahangirnagar University.
- **BSc.** , Major in Structural Engineering & Minor in Transportation Engineering, Bangladesh University of Engineering and Technology.
- **HSC** , Science, Chittagong College, Chittagong.
- **SSC** , Science, Dr. Khastagir Government Girls™ High School, Chittagong.

Research Interest

- Transportation planning and policy
- Machine learning applications in transportation engineering
- Urban mobility and travel behavior modeling
- Trip generation and travel demand forecasting
- Service quality assessment in public transportation
- Statistical modeling and data-driven decision-making in transportation

Experience

- **Lecturer** , Department of Civil Engineering, United International University. (March 01, 2021 to present)
- **Lecturer** , Department of Civil Engineering, Stamford University Bangladesh. (January 17, 2019 to February 28, 2021)
- **Research Assistant** , BUET. (November 16, 2018 to January 16, 2019).

Courses Taken

Ms. Nafisa Tabassum has experience of teaching these courses: * Engineering Mechanics * Engineering Materials * Engineering Materials * Mechanics of Solids I * Mechanics of Solids II * Structural Analysis and Design I * Design of Concrete Structures I * Design of Concrete Structures II * Prestressed Concrete * Engineering Geology and Geomorphology * Civil Engineering Drawing I * Computer Aided Drafting * Engineering Materials Sessional * Concrete Structures Design Sessional I * Concrete Structures Design Sessional II * Highway Design and Railway Engineering * Highway Materials and Traffic Engineering Design Lab

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