TASNIA HAQUE

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LinkedIn

EDUCATION

Khulna University of Engineering & Technology
Bachelor of Urban and Regional Planning
Cumulative GPA: 3.70 (on a scale of 4)

RESEARCH INTEREST

Environmental Engineering & Planning, Climate Change, Coastal Hazards, Land Use & Zoning, Spatial Analytics, Resilient Cities, Sustainability, Transportation Planning.

Undergrad Thesis

Title: Coastal Vulnerability Assessment to Climate Change Impact: A Case study of Bagerhat, Khulna and Satkhira District.

Aim: The aim of the study is to comprehensively evaluate the coastal vulnerability condition by integrating the spatial pattern of exposure, sensitivity, and adaptive capacity in the study area. The key objectives are to develop a coastal vulnerability index at the upazila level and ranking areas in terms of their susceptibility to coastal hazards.

STANDARDIZED TEST SCORE

Test of English as a Foreign Language (TOEFL): December 1, 2024

Overall	Reading	Listening	Speaking	Writing
103	28	28	23	24

TECHNICAL SKILLS

Tools ArcGIS, QGIS, Google Earth Engine, ERDAS IMAGINE, AutoCAD, SketchUp, SPSS, R, Python (Basic)
Others Adobe Premier Pro, Illustrator, Microsoft Excel, Microsoft PowerPoint, Microsoft Word

EXPERIENCE

Khulna City Corporation (KCC)
Intern, April 2022-May 2022
Worked under United Nations Development Programmes' project with Khulna City Corporation on Livelihood Improvement of Urban Poor Communities.

Center for Environmental Research (CER)
Research Assistant, August 23- Present
Active participation in various research projects (Pollution impacts, transportation planning, traffic safety, public health).

Rangpur City Corporation
Intern, April 2025-Present
Transportation and Road Assessment, Map Generation, Spatial database preparation and upgradation.

ShoktiKonna Leadership Cohort 2025
Expected Graduation: November 2025
Powered by World Bank, European Union, Global Gateway, GIZ, WePower, German Cooperation and Devtale Partners.
Skill development in Green Energy Transition, SDG 5, 7, 10, 13, leadership, and real-world problems. Training by international expert-led workshops, mentorship, field experiences, and internationally recognized courses.

WORKSHOP & TRAININGS

Writing Scientific Research Articles (2022) — Organized by: URP Association, KUET

'Stronger national climate plans through multilevel action' Virtual Workshops-Daring Cities (July 2025-Ongoing) — Organized by: ICLEI

AWARDS

- Dean's List Award: 2 (Junior Year academic year result, Senior Year academic year result)
- University Merit List Scholarship for all academic year results.
- Bangladesh Board Scholarship, 2014, 2016

PUBLICATIONS

Conference

- 'Carbon Consequences of Deforestation in Khagrachari of Chittagong Hill Tracts: A GIS and Remote Sensing Approach', published in Proceedings of 7th International Conference on Civil Engineering for Sustainable Development in 2024.
- 'Quantifying Carbon Footprints: A Comparative Analysis of Carbon Emission from Different Land Uses of Khulna to Measure Global Warming Potential' oral presentation at the RUEC 1st International Research Conference-2025.

Journal

- Heat Susceptibility Mapping Across Khulna District, Bangladesh: Development and Analysis of a Comprehensive Heat Vulnerability Index and Delineating Intervention Areas (Under Review)

ACADEMIC RESEARCH & PROJECT WORKS

- **Global Warming Potentiality Measure Through Assessment of Carbon Footprint**

Description: The goal of the study is to assess global warming potentiality through measurement of carbon input and output emission level of built environment through life-cycle assessment from different land use of Khulna city.

- **Traffic Noise Comparison of Different Land Use Types and Its Effect on People in Khulna City**

Description: This study aims to explore noise and its various indices, assess traffic noise pollution levels across different land use zones in Khulna city, and analyze the relationship between traffic noise and its impact on people.

- **Identifying the Most efficient Route for Travel between Ishwardi and Dhaka via Roadways**

Description: The aim of this study is to determine the most efficient roadway route between Ishwardi and Dhaka by analyzing travel time, distance, traffic patterns, and road conditions. The study seeks to optimize connectivity, reduce travel costs, and improve accessibility, benefiting commuters, businesses, and regional development in Bangladesh.

- **Analysis of the Current State of Rural Growth Centers and Industrial Suitability Determination**

Description: The study aims to evaluate the current state of Senhati Bazaar as a growth center, assessing its economic, social, and cultural roles, while analyzing its formation, functions, and impact on surrounding areas. It also seeks to identify existing problems and recommends necessary facilities and services for future development.

- **Suitability and Site Analysis of Satellite Town and Planning Conceptual Satellite Town in Khulna**

Description: This study aims to conduct a suitability analysis for establishing a satellite town within the KDA planning area, emphasizing site prioritization, road layout planning, land use and facility allocation, plot calculations, and provisions for residential development.

- **Intra-City Slum Migration of Slum Dwellers in Khulna City.**

Description: The study focused on exploring the socioeconomic and demographic factors influencing migration patterns and the challenges faced by marginalized groups, employing statistical analysis to examine these correlations.

- **Suitability Analysis for Economic Zone Establishment**

Description: The study aims to identify optimal locations for economic zones in Bangladesh by analyzing geographic, environmental, social, and economic factors promoting sustainable development a enhance regional economic growth.

- **Ecosystem Service and Dis-service Assessment Across Land Use and Community and Impact Assessment**

Description: The study aims to identify impacts of ecosystem service and disservice components and compare distribution between high- and low-income communities to reveal inequities and inform sustainable development strategies.

CORE COURSES

GIS and Remote Sensing, Computer Applications in Planning, Transportation Planning, Site and Area Planning, Programming Techniques for Planners, Solid Mechanics I & II, Statistics for Planner I & II, Environmental Planning and Management, Elements of Civil Engineering Structures, Water Resources Planning, Coastal and Special Zones Planning.

EXTRA CURRICULAR ACTIVITIES

- Program Associate – Climate & Urban Resilience of ARISE Foundation
- Junior Executive of Design Integrated Society of KUET (DISK)
- Volunteer for DREAM (Blood Donation society of KUET)
- Festive Section Asst. Editor of KUET Theatre
- Volunteer for Plannation 2.0 (Organized by Design Integrated Society of KUET)
- House-in-charge of The Millennium Stars Model United Nation 2018(TMSMUNA)

REFERENCE

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