



Sharfan Upaul
Assistant Professor

Research Area Project 4 -Evaluation Study of "Khulna Water Supply Project" of Water Supply & Sewerage Authority of Khulna
Project 3 - Master Plan on "Solar Light Installation in Streets and Public Places in Khulna City"
Project 2- Feasibility study of: "Mayur Riverfront Development Through River Waste Management Project"
Project 1 - Country Study: Disaster, Climate Change and Poverty in Bangladesh

Biography

Sharfan Upaul is a permanent faculty member, (since May, 2019-to date) at the Department of Urban and Regional Planning, *Khulna University of Engineering and Technology (KUET)*.

He completed his Bachelor's in *Urban and Regional Planning* from KUET with honors marks. Then he completed his MSc. in *Geo. and Environmental Engineering (GEE)* from the Department of Environmental Health and Engineering (EHE) at *Johns Hopkins University* with a full-funded scholarship.

He used to work as a research assistant (RA) in the '*Green House Gas Lab*' of Prof. Scott Miller at *Johns Hopkins University*. Prior to that, he also had working experience as a research assistant on the "Housing Development of Australian Migrants" project at *Western Sydney University*, Australia. Before that, during his undergraduate, he also completed his Internship at the *Local Government Engineering Department (LGED)* Khulna, on road infrastructure planning in rural region of Bangladesh.

Sharfan also has extensive research project experience. He participated in multiple research projects of governmental bodies (i.e., KCC, KWASA, KMP) and international non-governmental organizations (i.e., FAO, BRAC). He also completed his in-person training on crush safety from the *Indian Institute of Technology, Delhi*.

He is from the south-western port city '*Khulna*'.

Research Areas:

- Environmental pollution
- Air particles and gasses
- Climate change and adaptation
- Geoinformatics
- Solid waste management
- Water and wastewater treatment

Education

M.S. in Geography and Environmental Engineering

Johns Hopkins University, USA (2022-2024)

Bachelor in Urban and Regional Planning

Khulna University of Engineering and Technology, KUET, Bangladesh (2014-2018)

Service Records

- **Intern**
Local Government Engineering Department (LGED) From 01-01-1970 to 01-01-1970
Working Area: Transportation Planning and Pavement Construction
- **Research Assistant**
Western Sydney University From 01-01-1970 to 01-01-1970
Working Area: Housing research project of Australian Immigrants

Research Interest

Project 4 -Evaluation Study of "Khulna Water Supply Project" of of Water Supply & Sewerage Authority of Khulna

Funding Agency: Water Supply & Sewerage Authority of Khulna (WASA- Khulna)

Year: 2021

Through this evaluation study the following topics were answered: "Percentage of people in Khulna have you been able to bring under the safe water project" "years are needed to bring the whole city under a safe water project" "Coordination with other organizations" "How is stakeholder participation done in the project?" "How do slum dwellers get the services from the project?" "Plans to use public ponds as a reservoir" "Measures can be taken to increase water quality"

Project 3 - Master Plan on "Solar Light Installation in Streets and Public Places in Khulna City"

Funding Agency: Khulna Metropolitan Police (KMP)

Year: 2019

While working in KUET, I had the opportunity to work with two professors from my department as a project member of the "Solar Traffic Light Assessment Project" of Khulna Metropolitan Police (KMP). My job, as a project member was to find out the location of the existing solar traffic lights in Khulna city through a GPS survey and to propose the installation of new solar traffic lights in three phases. As the project outcome, I along with my group leader submitted the final report of the feasibility study, showing the efficient location of proposed lights through the suitability analysis.

Project 2- Feasibility study of: "Mayur Riverfront Development Through River Waste Management Project"

Funding Agency: Khulna City Corporation (KCC)
Year: 2019

As a project member, I worked with two other departmental colleagues on the development of the Mayur riverfront in Khulna. Our job was to ensure the smooth flow of the Mayur river by managing the river waste properly and to make recommendations for a linear park along the river. We submitted the final feasibility report through survey and analysis to the Khulna City Corporation Authority.

Project 1 - Country Study: Disaster, Climate Change and Poverty in Bangladesh

Funding Agency: Food and Agriculture Organization (FAO)
Year: 2018

This research was done throughout the North Eastern and North Western part of Bangladesh. The main motto of this study was to assess the resilience of the people in flood-prone, drought-prone and water land districts. I worked there as a project member and surveyed 5 districts and 10 Upazillas in Bangladesh. Several seminars and workshops were also done with the focused groups and Key Informants. The total study report was submitted to the authority.

Publication

Books

Journals

3. Joy, M. A. R. , Upaul, S. , Fatema, K. and Amin, F. M. R. (2023) , " Application of GIS and remote sensing in morphometric analysis of river basin at the south-western part of great Ganges delta, Bangladesh.," **Hydrology Research**, IWA Publishing, vol54, no.06, pp.739-755
2. (2023) , " Active transportation and the built environment of a mid-size global south city," **Sustainable Cities and Society**, Elsevier, vol89, pp.104329
1. Sharif, S. , Upaul, S. and Mim, S. O. (2021) , " Investigation of Locational and Non-locational Factors Influencing Crash Severity: A Developing World Perspective," **Trends in Transport Engineering and Applications**, STM Journals, vol8, no.2, pp.29-45

Conference

3. Rahman, M. M. , Upaul, S. , Rahman, M. and Thill, J. F. (22 February 2022) , "Impact of the Built Environment on Active Transportation: Empirical Evidence from a Developing Context," **2022 AAG Annual Meeting** , American Association of Geographers
1. Upaul, S. , Nitu, S. F. F. and Bakshi, A. (27-28 February 2021) , "A Tentative Scenario of Solid Waste Management in Urban And Peri-urban Area of Khulna District Through The Resource Reuse," **WasteSafe 2021- 7th International Conference on Integrated Solid Waste & Faecal Sludge Management: Blue Appropriate Social Oriented Solutions**
1. Nitu, S. F. F. , Hafiz, S. B. , Chowdhury, A. I. and Upaul, S. (December 2020) , "Climate Change Impact: Evidence from Agriculture and Food Security in Coastal Areas in Khulna Region, Bangladesh," **4th-International Conference on Bangladesh Environment-ICBEN** , ICBN, pp.140-159