

# RAMISA TANJUM RAIN

## Graduate Water Resources Engineer | Researcher

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### ABOUT ME

- An enthusiastic and committed water resources engineer.
- Devoted to providing significant solutions with integrity and tenacity in Civil Engineering and water resources engineering.
- Compelled to make a significant contribution to initiatives that improve the environment and infrastructures.

### EDUCATION

Bachelor of Science in Water Resources Engineering Chittagong University of Engineering & Technology (CUET)	Passing Year 2025
Higher Secondary Certificate (HSC) Viqarunnisa Noon School and College (VNSC)	Passing Year 2018
Higher Secondary Certificate (HSC) Viqarunnisa Noon School and College (VNSC)	Passing Year 2016

### SKILLS

#### SOFTWARE SKILLS

##### Engineering Software

AutoCAD	ETABS	Arc GIS
QGIS	LUMION	MATLAB

##### Hydrological Software

SWMM	Hec-RAS
Hec-HMS	Water GEMS

##### General

MS WORD	MS EXCEL
Code Blocks	POWERPOINT

#### TECHNICAL SKILLS

<b>Specialized Tools:</b> Model Builder, 3D Analyst and ArcGIS Spatial Analyst for intricate workflows.	<b>Data Integration:</b> Proficiency in managing and combining geographic data from multiple sources for environmental and urban planning.
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#### STORM WATER MANAGEMENT

Expertise in storm water management techniques and modeling tools. Basic knowledge of **Python** for scripting and automation in **hydrological** and **geospatial applications**.

#### WATER RESOURCES PLANNING AND DESIGN

Competent in watershed analysis, flood risk assessment, and water resource planning

**LEADERSHIP Skills-** Served as the **Class Representative (CR)** for undergraduate students in Chittagong University of Engineering and Technology, representing student interests and facilitating communication between students and faculty.

#### LANGUAGE PROFICIENCY

- High proficiency in **English Language**
- Actively participated in the **British English Language Club**, enhancing language proficiency and cultural awareness through workshops, discussions, and events.

## PUBLICATION AND RESEARCH

- A Case Study on Sustainable Tourism:  
Water Quality Assessment for Kaptai and Karnaphuli Areas of Chattogram, Bangladesh (**ICERIE 2025**)
- Carbon Emission Analysis and Ocean Acidification Due to Urbanization in Chattogram: Effects on Water and Protective Measures (**ICERIE 2025**)
- Sustainable water management for cuet: designing an efficient water supply system (**ICETSD 2025-POSTER**)
- 'SPONGE CITY' Concept potentiality in water management of a selected urban area (**ICWFM 2025-POSTER**)

## UNDERGRAD THESIS

Titled-"**A study on harvesting rainwater by applying green roof in Chattogram City. Working on Chattogram city**" applying **GIS,LID** in **SWMM** also using Machine Learning coding and **3D scenario** in the research. This thesis was supervised by Prof. Dr. Aysha Akter.The main objective is **to reduce surface runoff** of the city **by applying green roof**.

## AWARDS AND ACHIEVEMENTS

- **Intra Cuet Concrete Solution Competition 2022**  
2nd Runner-Up Prize – Team CUET ARROW
- **Intra Cuet Eco-Concrete Competition 2021**  
1st Runner-Up Prize - Team CUET ASH
- **Best Captain Award 2018**  
Viqarunnisa Noon School and College (Section-C sci)
- **Merit Scholarship in Secondary School Certificate (SSC 2016)**  
Thana-Ramna, Viqarunnisa Noon School and College
- **Best Reader – Bishwo Shahitto Kendro** Recognized as the Best Reader **2013**

## WORK OF EXPERIENCE

**Internship Experience** **Duration 2 Weeks (Oct 2023)**  
Bangladesh Water Development Board (BWDB), Dhaka, Bangladesh  
Internship Course: **FCDI** Projects, Planning , Flood Forecasting and Warning Center (**FFWC**) activities, Hydrology Data collection, **Delta plan** and other field activities in water resource sector.  
**Senior Executive in Rainforest Real Estate Group** **May 2025 to Running**

## Extra Curricular Activities

- **Freelancing** – writing different blogs on websites, graphics designing work and portfolio creation
- Event management in several programs- Viqarunnisa English Language Club (VELC), Honorary member American Society of Civil Engineers (ASCE- CUET).
- Hosting Programs and writing scripts of cultural organizations.

## REFERENCES

Prof. Dr. Aysha Akter  
Head, Department of Civil Engineering Chittagong University of Engineering & Technology  
(CUET)  
Chittagong 4349, Bangladesh  
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