

# Deeptonil Roy

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[LinkedIn](#) [ResearchGate](#) [Personal Website](#)

## **Research Interests:**

Hydro-climatology, Hydro-Informatics, Probabilistic Hydrology, Land-Atmosphere Interactions, Geohydrology, Waste Water, Water Quality, Air Quality, Remote Sensing.

## **Education:**

**Bachelor of Science** (Jan 2018 - June 2023)

Chittagong University of Engineering and Technology

Major: Civil Engineering

CGPA: **3.04/4.00** (39<sup>th</sup> out of 131 students)

## **Thesis:**

**Meteorological drought pattern of Bangladesh under changing climate.**

9th International Conference on Water and Flood Management-ICEMAN 2023  
Dhaka, Bangladesh. ISBN- 978-984-35-4948-8

Drought needs to be explained spatially to understand its spatiotemporal variations in different areas. In my project, the meteorological drought was shown using the Standardized Precipitation Index (SPI) method and illustrated through the Inverse Distance Weighted (IDW) method across Bangladesh. We used rainfall data from 23 meteorological stations in Bangladesh during the study period of 1966–2022. For SPI calculation I used a data analysis software named R Studio. IDW and meteorological drought mapping were done in ARC GIS.

Check it out [here](#)

## **STANDARDIZED TESE SCORES:**

Test of English Proficiency as a Foreign Language (IELTS) (26<sup>th</sup> October, 2024)

Total	Listening	Reading	Writing	Speaking
7.5	8.0	7.5	7.0	6.5

## **Software:**

- Arc-GIS
- Earth Engine
- Microsoft Office, MS Word, MS Excel
- R-Studio
- Auto CAD

**Work  
Experience:**

**Self-Employed** (August 2018 – November 2024)  
Freelancer Tutor

- Tutored high school and undergraduate students.
- Subjects: Physics, Chemistry, Mathematics, Arc-GIS.

**Internship at Local Government Engineering Department (LGED)**  
*Intern Trainee (21 days) (5<sup>th</sup> March 2023- 26<sup>th</sup> March 2023)*

- Conduct field visits and inspections of the ongoing construction site of bridges/culverts, roads, or buildings in the LGED Chittagong City.
- Field visit and inspection of Madunaghat Water Treatment Plant, Chittagong.
- Waste management process in Chittagong City.
- Air quality assessment of Chittagong City.
- LGED Laboratory Inspection.

**Leadership  
Activities:**

CUET Photographic Society  
**President** (January 2022 – January 2023)

- Rendering advice to the Executive Committee and organizing various events and exhibitions.

**Extra  
Curricular  
Activities:**

- CUET Graduation Ceremony, 2023 (Organizer)
- Inter-Departmental Debate Competition, 2019 (Organizer)
- Photographic Exhibition: Revealing the Unseen (Participant)

**CERTIFICATIONS:**

- ArcGIS for Spatial Analysis, Udemy.
- Remote Sensing with GEE Cloud Computing, Udemy.

**References:**

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