



# NOOR ALAM

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## RESEARCH INTERESTS

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Fluid Dynamics, Partial Differential Equations, Mathematical Physics, Data Science

## EDUCATIONAL QUALIFICATION

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Texas Tech University, TX, USA

August 2025 – Present

*PhD in Mathematics*

Comilla University, Cumilla, Bangladesh

June 2017 – September 2018

*MS in Mathematics*

*CGPA: 3.93/4.00 (Rank: 3/50)*

**Thesis Dissertation:** Unsteady MHD flow over an inclined porous plate thermal and mass diffusion in the presence of radiation.

Comilla University, Cumilla, Bangladesh

January 2012 – April 2017

*BS in Mathematics*

*CGPA: 3.72/4.00 (Rank: 3/50)*

**Project Title:** Numerical Study for Solving Initial Value Problems in Ordinary Differential Equations by using Single-step and Multi-step Methods.

## TEACHING EXPERIENCE

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Texas Tech University, TX, USA

August 2025 – Present

*Graduate Teaching Assistant, Department of Mathematics and Statistics*

Kishoreganj University, Bangladesh

October 2023 – Present

*Lecturer, Department of Mathematics*

Dhaka Commerce College, Mirpur, Dhaka, Bangladesh

March 2022 – October 2023

*Lecturer, Department of Mathematics*

Primeasia University, Banani, Dhaka, Bangladesh

May 2019 – February 2022

*Lecturer in Mathematics, Department of Basic Science*

German University Bangladesh, Gazipur, Bangladesh

Feb 2019 – May 2019

*Lecturer in Mathematics, Department of Computer Science and Engineering*

## PUBLICATIONS

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- T. Usman, **N. Alam**, M. S. Ullah, et al. “Soliton, stability, multistability, and diverse tools for identifying chaos in a nonlinear model with two modified methods”, *Nonlinear Engineering*, De Gruyter, November 2025. [Accepted]
- T. Usman, M. A. Akter, **N. Alam**, et al. “Bifurcation, Chaos, Multistability, Sensitivity, and Dynamic Properties to the Third Fractional WBBM Equation”, *Mathematical Methods in the Applied Sciences*, Wiley, November 2025. [Paper]
- **N. Alam**, M. S. Ullah, J. Manafian, et al. “Bifurcation analysis, chaotic behaviors, and explicit solutions for a fractional two-mode Nizhnik-Novikov-Veselov equation in mathematical physics”, *AIMS Mathematics*, AIMS Press, March 2025. [Paper]
- **N. Alam**, M. S. Ullah, T. A. Nofal, et al. “Novel dynamics of the fractional KFG equation through the unified and unified solver schemes with stability and multistability analysis”, *Nonlinear Engineering*, De Gruyter, October 2024. [Paper]

- **N. Alam**, A. Akbar, M. S. Ullah, M. Mostafa, “Dynamic waveforms of the new Hamiltonian amplitude model using three different analytic techniques”, *Indian Journal of Physics*, Springer, September 2024. [\[Paper\]](#)
- **N. Alam**, W. X. Ma, M. S. Ullah, et al. “Exploration of soliton structures in the Hirota–Maccari system with stability analysis”, *Modern Physics Letters B*, World Scientific, July 2024. [\[Paper\]](#)
- **N. Alam**, S. Poddar, M. E. Karim, et al. “Transient MHD Radiative Fluid Flow over an Inclined Porous Plate with Thermal and Mass Diffusion: An EFDM Numerical Approach”, *Mathematical Modelling of Engineering Problems*, IIETA, September 2021. [\[Paper\]](#)

## SELECTED AWARDS & ACHIEVEMENTS

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**UGC Grant '18:** Received a research grant from the University Grants Commission of Bangladesh.

**NST Fellowship '18:** Awarded to support the M.Sc. dissertation from the Ministry of Science and Technology of Bangladesh.

**Student Scholarship:** Received the university's yearly scholarship for outstanding academic performance.

**Scholarship for Entrance Exam:** Awarded the scholarship for achieving the top position in the undergraduate entrance exam.

## ACADEMIC SERVICES

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**Chief Advisor:** Pie Club (June 2024 - July 2025), Department of Mathematics, Kishoreganj University, Bangladesh

**Mentor:** Math Olympiad Team (Jan 2020 - Dec 2021), Department of Basic Science, Primeasia University, Dhaka

**Executive Member:** Mathematics Club (Jan 2013 - Dec 2017), Department of Mathematics, Comilla University, Cumilla

**Reviewer:** Elsevier Journal, Physics Open

**Reviewer:** Hindawi Journals, Abstract and Applied Analysis

**Reviewer:** World Scientific Journals, International Journal of Modern Physics B

## TECHNICAL SKILLS

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- **Programming Languages:** Mathematica, Maple, FORTRAN, MATLAB, Python
- **Microsoft Office:** Word, Excel, PowerPoint
- **Developer Tools:** LaTeX, PyCharm, Jupyter Notebook, Spyder
- **Operating System:** Linux, Windows