

# NOOR ALAM

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## RESEARCH INTERESTS

Applied Mathematics, Fluid Dynamics, Mathematical Physics, Partial Differential Equations

## EDUCATIONAL QUALIFICATION

Comilla University, Cumilla, Bangladesh.

June 2017 - September 2018

*M.Sc. in Mathematics*

**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

*B.Sc. in Mathematics*

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

## TEACHING EXPERIENCES

Kishoreganj University, Kishoreganj, 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.

February 2019 - May 2019

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

## PUBLICATIONS

- **N. Alam**, M. S. Ullah, “Bifurcation, chaos, multistability, sensitivity, and dynamic properties to the third fractional WBBM equation”, *Heliyon*, Elsevier B.V., December 2024. [Under review]
- **N. Alam**, M. S. Ullah, “Soliton, stability, and multistability analysis of the Zoomeron model with two modified methods”, *Journal of Applied Mathematics and Physics*, Birkhauser Verlag Basel, October 2024. [Under review]
- **N. Alam**, M. S. Ullah, J. Manafian, K. H. Mahmoud, H. M. Ahmed, K. K. Ahmed, S. Alkhatib, “Bifurcation analysis, chaotic behaviors, and explicit solutions for a fractional two-mode Nizhnik-Novikov-Veselov equation in mathematical physics”, *AIMS Mathematics*, AIMS Press, November 2024. [Accepted]
- **N. Alam**, M. S. Ullah, T. A. Nofal, H. M. Ahmed, K. K. Ahmed, M. A. A. Nahhas, “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, A. R. Seadawy, M. Akter, “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, M. S. Hasan, G. Lorenzini, “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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**NST Fellowship'18:** Awarded to facilitate the M.Sc. dissertation from the Ministry of Science and Technology of Bangladesh.

**Student Scholarship:** Received university yearly scholarship for outstanding results.

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

## 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.

## Activities & Services

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**Chief Advisor:** Pie Club (2024-Present), Department of Mathematics, Bangabandhu Sheikh Mujibur Rahman University, Kishoreganj.

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

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