Department of Mathematics
Khulna University of Engineering & Technology
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Md. Shakil Hossain
Assistant Professor
Research Area Applied Mathematics

Biography

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Education

Masters of Science (M.S.) (Thesis)
University of Dhaka,Bangladesh(2017-2018)
Thesis Title: **Genesis, Intensity, Track, and Landfall of Tropical Cyclone Fani over the Bay of Bengal Using WRF Model**
Bachelor of Science (B.S.)
University of Dhaka,Bangladesh(2013-2017)
Higher Secondary Certificate (H.S.C.)
Gazipur Cantonment College,Bangladesh(2012)Group: Science,Student Type:Regular,
Secondary School Certificate (S.S.C.)
Kuripara High School,Bangladesh(2010)Group: Science,Student Type:Regular,

Service Records

- **Assistant Professor**
  Department/Section: Mathematics
  Khulna University of Engineering & Technology *From 24-06-2024 to 01-01-1970*
- **Lecturer**
  Department/Section: Mathematics
  Khulna University of Engineering & Technology *From 02-05-2021 to 23-06-2024*

Research Interest

Applied Mathematics
Atmospheric Physics
Numerical Weather Modelling

Publication

Books

Journals

6. Hossain,M. S. , Hossain,M. S. , Akhi,M. F. A. , Samad,M. A. and Mallik,a. M. A. K. (2024) , " Understanding the Formation and Intensification Process of Several Cyclonic Systems over the Bay of Bengal using the Revised Genesis Potential Parameter Index," ***Evergreen***, vol11, no.2, DOI:https://doi.org/10.5109/7183355

5. Akhi,M. F. A. , Hossain,M. S. , Hossain,M. S. and Mallik,M. A. K. (2023) , " Simulation of Track and Landfall Process of Severe Cyclonic Storm Mora over the Bay of Bengal using WRF-ARW Model," ***Dhaka University Journal of Science***, Bangladesh Academy of Sciences, vol71, no.2, DOI:https://doi.org/10.3329/dujs.v71i2.69123

4. Uddin,M. J. , Hossain,M. S. , Hossain,M. A. , Parvin,S. , Rahman,A. and Sohel,M. M. H. (2022) , " Estimating Option Prices with Discrete Dividend Payment Using Finite Difference Method and Monte Carlo Simulation: A Comparative Study," ***Journal of Applied Mathematics and Computation***, Hill Publishing Group Inc., vol6, no.4, DOI:https://doi.org/10.26855/jamc.2022.12.009

3. Hossain,M. S. , Samad,M. A. , Hossen,S. A. , Hassan,S. Q. and Malliak,M. (2022) , " The Efficacy of the WRF-ARW Model in the Genesis and Intensity Forecast of Tropical Cyclone Fani over the Bay of Bengal," ***Journal of Engineering Science***, Bangladesh Journals Online (JOL), vol12, no.3, DOI:https://doi.org/10.3329/jes.v12i3.57482

2. Hossain,M. S. , Samad,M. A. , Hossain,M. S. , Hossen,S. A. , Islam,M. A. and Hassan,S. Q. (2022) , " The Sensitivity of Initial Condition and Horizontal Resolution on Simulation of Tropical Cyclone Amphan over the Bay of Bengal using WRF-ARW Model," ***Dhaka University Journal of Science***, Bangladesh Journals Online (JOL), vol69, no.3, DOI:https://doi.org/10.3329/dujs.v69i3.60031

1. Hossain,M. S. , Samad,M. A. , Sultana,M. R. , Mallik,M. and Uddin,M. J. (2021) , " Track and Landfall Characteristics of Very Severe Cyclonic Storm Fani over the Bay of Bengal using WRF Model," ***Dhaka University Journal of Science***, Bangladesh Journals Online (JOL), vol69, no.2, DOI:https://doi.org/10.3329/dujs.v69i2.56490

Conference