

Curriculum Vitae

DR. BIKASH DAS

Email: bikashdas15.1997@gmail.com; bikash.das@rgu.ac.in

Phone: **7005082067**

Caste: OBC



Address:

Vill: Harmoti

P.O.: Merbil, P.S: Laluk

Dist.: Lakhimpur, Pin: 784160

State: Assam

Educational Qualifications:

S1. No.	Name of the Examination	Board/Univ- ersity	Subjects	Year
1.	Class X	CBSE	General	2014
2.	Class XII	CBSE	Physics, Chemistry, Mathematics, Biology, English, Hindi	2016
3.	B.Sc	Dibrugarh University	Mathematics	2019
4.	M.Sc	Rajiv Gandhi University, Itanagar	Mathematics	2021
5.	Ph.D	Rajiv Gandhi University, Itanagar	Mathematics	2025

Experience:

Sl.no	Duration	Designation	Institute	Courses Taught
1.	12 th Sep., 2024 to 18 th Dec., 2024	Teaching Assistant	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	1. Introduction to Linear Algebra (B.sc 3 rd Sem) 2. Introduction to Mathematica (B.sc 3 rd Sem) 3. Differential Calculus (B.sc 1 st Sem)
4.	16 th Feb., 2025 to till now	Teaching Assistant	Rajiv Gandhi University, Itanagar, Arunachal Pradesh	1. Ordinary Differential Equations (UG Minor 2 nd Sem) 2. Introduction to C-programming (B.sc 2 nd Semester)

Skills:

1. C- Programming,
2. MATLAB Programming,
3. COMSOL Multiphysics.

Research Area: Fluid Dynamics.

Award:

1. **SLET NE** in Mathematical Science from Slet Commission North East in the year 2023.

Published Article:

1. **Bikash Das and Sahin Ahmed**, *Numerical modelling of bioconvection and heat transfer analysis of Prandtl nanofluid in an inclined stretching sheet: A finite difference scheme*, Numerical Heat Transfer, Part A: Applications, Vol. 84(5), 1 – 21, 2023. DOI: <https://doi.org/10.1080/10407782.2023.2237184>
2. **Bikash Das and Sahin Ahmed**, *Darcy Forchheimer Flow of Williamson Fluid Past a Stretching Sheet With Variable Thermal Conductivity*, Latin American and Applied Research, Vol. 54 (2), 2024. DOI: <https://doi.org/10.52292/j.laar.2024.3102>
3. **Bikash Das and Sahin Ahmed**, *Williamson Nanofluid Over A Cone and Wedge: Numerical Modelling of Hydromagnetic Brownian Motion Using the Extended*

Darcy Model, Journal of Nanofluid, Vol. 13(1), 2024. DOI:
<https://doi.org/10.1166/jon.2024.2148>

4. **Bikash Das and Sahin Ahmed**, *COMSOL Multiphysics simulation of hydromagnetic flow in horizontal channels with diverse media: Insights into momentum and heat diffusion limitations*, Heat Transfer-Wiley, 2024. DOI: <https://doi.org/10.1002/htj.23038>
5. **Bikash Das, Sahin Ahmed and Joaquin Zueco**, *Bioconvective Flow Characteristics of NEPCM-Water Nanofluid over an Inclined Cylinder in Porous Medium: An Extended Darcy Model Approach*, Mathematics, Vol. 12(24), 2024. DOI: <https://doi.org/10.3390/math12244012>
6. **Ahmed, Sahin, Bikash Das, and Anil Nangkar**. "Electromagnetically Controlled Unsteady Flow and Heat Transfer of a (SWCNT, TiO₂)-H₂O Hybrid Nanofluid." *Journal of Nanofluids* 14, no. 4 (2025): 618-624.

Book Chapters:

1. **Bikash Das, Sahin Ahmed, Anil Nangkar**, *Natural convection in a triangular cavity filled with M o S 2 - water nanofluid and microorganisms*, Nanofluid Dynamics and Transport Phenomenon, 2024. DOI: [10.1201/9781003527251-10](https://doi.org/10.1201/9781003527251-10)
2. **Bikash Das, Sahin Ahmed, Mayzul Alom Hussain**, *Numerical computation of bioconvection flow in nanofluid over stretching sheet in non-Darcy medium with Forchheimer correction*, Nanofluid Dynamics and Transport Phenomenon, 2024. DOI: [10.1201/9781003527251-12](https://doi.org/10.1201/9781003527251-12)

Conferences:

1. **Bikash Das and Sahin Ahmed**, *Numerical Modelling in Heat Transfer Analysis of SWCNT/EG Nanofluid in a Stretching Sheet: A Darcy-Forchheimer Model*, NCAMS 2022, Gauhati University.
2. **Bikash Das and Sahin Ahmed**, *Numerical Investigation of Darcy Forchheimer MHD flow of Bioconvection and Heat Transfer Analysis of Prandtl Nanofluid in an Inclined Stretching Sheet*, ICCM 2023, Sadguru Gadage Maharaj College, Karad.

3. **Bikash Das and Sahin Ahmed**, *A Mathematical Modelling of Williamson Fluid Flow Over Cone/Wedge Under the Influence of Lorentz Force*, RAAS 2023, East Point College of Engineering and Technology.
4. **Bikash Das and Sahin Ahmed**, *Numerical computation of bioconvection flow in nanofluid over stretching sheet in non-Darcy medium with Forchheimer Correction*, ICRTMSE, 22 – 23, December, 2023, School of Technology Management and Engineering SVKM's NMIMS (Deemed-to-be University), Indore, Madhya Pradesh, India.
5. **Bikash Das and Sahin Ahmed**, *Darcy Forchheimer Flow in an Open Channel with a Cylindrical Heater and Porous Matrix – Galerkin Method*, ISTAM, 19-21, December, 2024, CHRIST University, Bangalore, India.

Workshop Attended:

1. *Introduction to SageMath*, Conducted by ICT Mumbai, from May 20 – 29 June, 2020.