Dr. Runmoni Gogoi (Ph D)

Designation: Assistant Professor

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Address for Correspondence:

Akashratna 201, Anushaktinagar, Mumbai-400094

Professional Qualification:

- **Ph.D in Mathematics, 2010**
  Gauhati University, Guwahati- Assam
- **Master of Science (Mathematics), 2000**
  Gauhati University, Guwahati- Assam
- **Bachelor of Science, 1997**
  B. Barooah College, Guwahati- Assam

Short Biodata:

I have 14 years of working experience in teaching and research. My Ph. D. was completed at **Gauhati University, Assam** where national/International research publications were done and had participated actively in different research programs at the National and International levels. After submitting my Ph. D. Thesis, I was continuing my research work and in the year 2009, I received a research fellowship from **CSIR-India** for my research topic "*Observation on the Formation of Nonlinear Coherent Structures in Plasmas*", and continued post-doctoral research work in **Jadavpur University, Kolkata** which was for a period of one year.

Patents/ Products/ Consultancy:

Products Developed: NA

Patents:

1. NA

Consultancy Projects:

1. NA

Reviewer:

1. Physics of Plasmas journal

Major Subjects:

- Mathematics, Engineering Mathematics

Citation Analysis:

66 citations (h-index 6 and i10-index 3) in google scholar

https://scholar.google.com/citations?view_op=list_works&hl=en&user=77uRRUEAAAAJ

List of Publication:

Journal Publications:

1. "Arbitrary amplitude dust ion acoustic solitary waves and double layers in a plasma with non-thermal electrons", R. Gogoi, R. Roychoudhury & M. Khan; ***Indian Journal of Pure & Applied Physics***, 50, 110-116 (2012).
2. "Arbitrary amplitude dust ion acoustic solitary waves and double layers in a kappa distributed electron plasmas", R. Gogoi, R. Roychoudhury & M. Khan; ***Indian Journal of Pure & Applied Physics***, 49, 173-179, (2011).
3. "Arbitrary amplitude kinetic Alfvén solitary waves and double layers in a non- Maxwellian plasma", R. Gogoi and M. Khan; ***Physics of Plasmas***, 17, 112311 (1-7) (2010).
4. "Stability Analysis and Investigation of Higher Order Schrödinger Equation for Strongly Dispersive Ion-Acoustic Wave in plasma", R. Gogoi, L. Kalita and N. Devi ; ***Journal of Physics: Conference Series*** 208, 012085 (2010).
5. "Arbitrary amplitude double layers in warm dust kinetic Alfvén wave plasmas", R. Gogoi and N. Devi; ***Physics of Plasmas*** (Brief Communication), 15, 074504 (1-4), (2008).
6. "Nonlinear wave modulation and stability criteria for strongly dispersive ion-acoustic waves", R. Gogoi, L. Kalita and N. Devi, **AIP *Conf. Proceedings***, 1004, 219-225, (2008).
7. "Small amplitude solitary waves propagating in a plasma with negative ions", R. Gogoi, N. Devi and G. C. Das; ***Indian Journal of Pure & Applied Physics***, 46, 621- 628 (2008).
8. "Studies on the formation of large amplitude Kinetic Alfvén Wave Solitons and Double Layers in plasmas", N. Devi, R. Gogoi, G. C. Das and R. Roychoudhury, ***Physics of Plasmas***, 14, 012107(1-5) (2007).

Conferences and Workshops Publications:

1. "Sheath behaviour in plasma and characteristic properties of Dust Ion Acoustic Wave", K. Kalita, R. Gogoi and N. Devi; ***Proceedings of 52nd Annual Technical Session*** of the Assam Science Society, 8, 273-278 (2007).
2. "Nonlinear dust kinetic Alfvén solitary waves and their relevance with space plasma coherent structures", N. Devi and R. Gogoi; ***Proceedings of*** **PPPT-5 International Conference,** Minsk, Belarus, 439-442, (2006).
3. "Development of Nonlinear Structures in Plasma related to the Space Environment of the Earth", N. Devi and R. Gogoi; ***Proceedings of 51st Annual Technical Session*** of the Assam Science Society, Vol 7, 187-196, 2006.

Research and Scholarly Contributions:

- **Ph.D. Research**: Published 11 Research Papers
- **M. E. Research**: NA

Funding Received:

In the year 2009, I received a fund from **CSIR-India** for my research topic "***Observation on the Formation of Nonlinear Coherent Structures in Plasmas***", and continued post-doctoral research in **Jadavpur University, Kolkata** which was for a period of one year.

Software Tools:

1. Mathematica, MS-Office, ERP, LMS etc.

Professional Association:

- Plasma Science Society of India (PSSI)- Life Member

Experience:

- 14 years (teaching and research)

Responsibilities Handled:

1. MU semester exam paper setter (Convener)
2. MU Exam answer script evaluator (Sem 1,2,3,4), Junior supervisor
3. Mentor coordinator for FE
4. Ph.D coursework Lectures SH2021, SH2022
5. Class Advisor, FC duty, NAAC, NBA work etc.

Talks/Guest Lectures Delivered:

1. NA

SESSION CHAIR/JUDGE:

1. NA

Declaration
I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Faculty Name: Dr Runmoni Gogoi

Place: Navi Mumbai