



Dr. Tania Biswas

Assistant Professor

Department of Mathematics

School of Engineering

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1. ABOUT

Dr. Tania Biswas is an Assistant Professor in the Department of Mathematics, School of Engineering, at Dayananda Sagar University, Bengaluru, India. She has over three and a half years of teaching experience across reputed universities, with a strong commitment to teaching, research, and academic development. She received her Ph.D. in Mathematics from the University of Kalyani. Prior to her doctoral studies, Dr. Biswas was awarded the prestigious CSIR-NET-JRF, recognizing her academic excellence.

2. RESEARCH INTERESTS

- Existence and non-existence conditions for the solutions of delay-differential equations in the complex domain using Nevanlinna Theory
- Uniqueness of functions in the complex domain using Nevanlinna Theory

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics — University of Kalyani, 2022
- M.Sc. in Mathematics — University of Kalyani, 2016
- B.Sc. in Mathematics — University of Kalyani, 2014

4. PROFESSIONAL EXPERIENCE

- Assistant Professor — Brainware University, 11 months
- Assistant Professor — Sri Sathya Sai University for Human Excellence, 2 Years 6 months
- Assistant Professor — Dayananda Sagar University, 1 month

5. RESEARCH HIGHLIGHTS

- Publications: 16(4 SCIE, 11 Scopus indexed)
- Academic/Conference Roles: 8(presenting paper)
- Reviewer/Editorial Activities: 1

6. SELECTED PUBLICATIONS

1. A. Banerjee and T. Biswas, *On the value sharing of shift monomial of meromorphic functions*, **Surveys in Mathematics and its Applications**, 15(2020), 341-369, ISSN: 1842-6298 (SCOPUS indexed).
2. T. Biswas and A. Banerjee, *Finite-Order Transcendental Entire Solutions of Generalized Non-linear Shift Equations*, **Mediterranean Journal of Mathematics**, 18(4):130(2021), 1-25, ISSN: 1660-5454 (SCIE indexed).
3. A. Banerjee and T. Biswas, *On the transcendental solutions of Fermat type delay-differential and c -shift equations with some analogous results*, **Siberian Electronic Mathematical Reports**, 18(1)(2021), 479-494, ISSN: 1813-3304 (SCOPUS indexed).
4. Z. Latreuch, T. Biswas and A. Banerjee, *On the Exact Forms of Meromorphic Solutions of Certain Non-linear Delay-*

Differential Equations, Computational Methods and Function Theory, 22(3)(2022), 401-432, ISSN: 2195-3724 (SCIE indexed).

5. A. Banerjee and T. Biswas, On the value sharing of q - c -shift and q -shift monomials of meromorphic functions and their derivatives, *Sarajevo Journal of Mathematics*, 18(31)(2)(2022), 1-22, ISSN: 1840-0655 (UGC-Care listed).

6. T. Biswas and A. Banerjee, Characterization on transcendental entire solutions of certain types of non-linear generalized delay-differential equations, *Bollettino dell'Unione Matematica Italiana*, 15(3)(2022), 381-400, ISSN: 2198-2759 (SCOPUS indexed).

7. A. Banerjee, T. Biswas and S. Maity, On transcendental meromorphic solutions of certain types of differential equations, *Bulletin of the Korean Mathematical Society*, 59(5)(2022), 1145-1166, ISSN: 2234-3016 (SCIE indexed).

8. A. Banerjee and T. Biswas, On the transcendental entire and meromorphic solutions of certain non-linear generalized delay-differential equations, *Analysis*, 42(2)(2022), 89-109, ISSN: 2196-6753 (SCOPUS indexed).

9. A. Banerjee and T. Biswas, Some results on the transcendental entire solutions of Certain type of non-linear shift-differential equations, *The Journal of Analysis*, 30(4)(2022), 1709-1724, ISSN: 2367-2501 (SCOPUS indexed).

10. A. Banerjee and T. Biswas, Characterization of exponential polynomial as solution of certain type of nonlinear delay-differential equation, *Turkish Journal of Mathematics*, 46(6):16(2022), 2272 – 2291, ISSN:1300-0098 (SCIE indexed).

11. T. Biswas and A. Banerjee, On the existence and uniqueness of meromorphic solutions of m -th order Schwarzian difference equation, *Lobachevskii Journal of Mathematics*, 43(12)(2022), 41-53, ISSN: 1818-9962 (SCOPUS indexed).

12. Tania Biswas and Sayantan Maity, Entire Solutions for the Systems of Second-Order Partial Differential-Difference Fermat-Type Equations in $\mathbb{C}^2$, *Lobachevskii Journal of Mathematics*, 46(4)(2025), 1814-1826, ISSN: 1818-9962 (SCOPUS indexed).

13. Sayantan Maity and Tania Biswas, Uniqueness of Meromorphic Functions and Their Difference or Shift Operators in Several Complex Variables, *Carpathian Mathematical Publications*, 17(2)(2025), 472-482, ISSN: 2075-9827 (SCOPUS indexed).

14. Tania Biswas and Sayantan Maity, Entire Solutions for the Systems of Second-Order Partial Differential-Difference Fermat-Type Equations in Several Complex Variables, *Lobachevskii Journal of Mathematics*, 46(12)(2025), 6184-6199, ISSN: 1818-9962 (SCOPUS indexed).

15. Sayantan Maity and Tania Biswas, On an Open Problem of Gui, Xu and Wang, *Boletim da Sociedade Paranaense de Matemática*, 2026(44)(2026), 1-9, ISSN: 0037-8712 (SCOPUS indexed).

16. Tania Biswas and Sayantan Maity, Entire solutions of the second-order partial differential–difference trinomial functional equations in $\mathbb{C}^2$, *Annali Dell'universita' Di Ferrara*, 72:97(2026), 1-24, ISSN: 1827-1510 (SCOPUS indexed).

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=-xbfF5sAAAAJ&hl=en>
- ORCID: [0000-0001-8336-8449](https://orcid.org/0000-0001-8336-8449)
- Scopus: [58347695000](https://scopus.org/58347695000)
- ResearchGate: https://www.researchgate.net/profile/Tania-Biswas-4?ev=hdr_xprf
- Web of Science: [Researcher ID / Link, if applicable]
- Personal/Professional Website: [Link]

8. CONTACT

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