



Dr. Jenisha Linnet Edward

Assistant Professor

Department of Mathematics

School of Engineering

Dayananda Sagar University, Bengaluru,

Karnataka, India

Official Email: jenisha-maths@dsu.edu.in

1. ABOUT

She is currently working as an Assistant Professor of Mathematics at Dayananda Sagar University, Harohalli, Bengaluru, Karnataka. She holds a Ph.D. in Mathematics from the School of Advanced Sciences, Vellore Institute of Technology (VIT), Vellore, specializing in Fractional Differential Equations and Fixed Point Theory. She previously served as an Assistant Professor (Junior) at VIT while pursuing her doctoral research and earned her M.Sc. in Mathematics from Auxilium College (Autonomous), Vellore. Her research focuses on existence and uniqueness results for fractional differential equations with various boundary conditions using fixed point theorems, supported by theoretical and numerical analysis. She has four publications, including one Scopus-indexed book chapter and three journal articles, of which two are indexed in Web of Science and one in Scopus. Her broader research interests include generalized fractional operators, higher-order and coupled fractional systems, stability analysis, computational methods, and interdisciplinary applications. Her teaching contributions include calculus, linear algebra, differential equations, and other foundational areas of mathematics.

2. RESEARCH INTERESTS

- Fractional Differential Equations
- Fractional Calculus and Generalized Fractional Operators
- Fixed Point Theory
- Fractional Boundary Value Problems
- Higher-Order and Coupled Fractional Systems
- Stability Analysis and Computational Techniques

3. ACADEMIC QUALIFICATIONS

- **Ph.D. in Mathematics** - Vellore Institute of Technology (VIT), Vellore, **2025**
- **M.Sc. in Mathematics** - Auxilium College (Autonomous), Vellore, **2020**
- **B.Sc. in Mathematics** - Auxilium College (Autonomous), Vellore, **2018**

4. PROFESSIONAL EXPERIENCE

- **Assistant Professor** - Dayananda Sagar University, July 2026 – Present

5. RESEARCH HIGHLIGHTS

- **Publications:** 3 journal publications-2 indexed in **Web of Science** and 1 indexed in **Scopus**, in the areas of Riesz, Riesz–Caputo, and combined Caputo fractional differential equations and boundary value problems.
- **Book Chapters:** *Advances in Quantum Calculus and Functional Analysis with Applications*, Chapman and Hall/CRC, 2025.
- **Awards:** Received **Raman Research Award (2022–2023)** and **Raman Research Award (2023–2024)** for publications in Scopus-indexed journals.
- **Conferences:** Presented research papers at **ICNAA-2022**, **NCAMS-2022**, and **ICNACT-2024**; attended and contributed a research talk at the **3rd International Conference on Non-linear Analysis and Computational Techniques (2026)**.

6. SELECTED PUBLICATIONS (Recent)

1. J.L. Edward, A. Chanda, and H.K. Nashine, “Solutions of higher order fractional differential equations in Riesz space with anti-periodic boundary conditions,” *Journal of Nonlinear and Convex Analysis*, 24(9), 1929–1938, 2023.
2. J.L. Edward, A. Chanda, and H.K. Nashine, “Solutions of Riesz-Caputo fractional derivative problems involving anti-periodic boundary conditions,” *Filomat*, 38(17), 6177–6192, 2024.
3. J.L. Edward, A. Chanda, and H.K. Nashine, “Solvability of non-separated type integral Boundary value problems involving the combined Caputo fractional derivative,” *Palestine Journal of Mathematics*, 14(4), 504–518, 2025.
4. J.L. Edward, A. Chanda, and H.K. Nashine, “Advances in Quantum Calculus and Functional Analysis with Applications,” *Chapman and Hall/CRC*, 1st Edition, pp. 1–14, 2025. **[Book Chapter, Scopus indexed]**

7. ACADEMIC PROFILES

- **GoogleScholar:** https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=jenisha+linnet+Edward&oq=j
- **ORCID:** <https://orcid.org/0009-0005-2089-9716>
- **Scopus:** 58822987200
- **ResearchGate:** https://www.researchgate.net/profile/Jenisha-Edward?ev=hdr_xprf

8. CONTACT

Department of Mathematics
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Bengaluru, Karnataka, India - 562112
Official Email: jenisha-maths@dsu.edu.in