



Dr. SRIMANTA MAJI

Assistant Professor

Department of Mathematics

School of Engineering

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1. ABOUT

Dr. Srimanta Maji is an Assistant Professor in the Department of Mathematics, School of Engineering, Dayananda Sagar University (DSU), Bengaluru since August 2023. He received his Ph.D. in Mathematics from the Institute of Chemical Technology (ICT), Mumbai. He has more than eight years of teaching experience at reputed government and private institutions with A++ and A+ grades. Prior to joining DSU, he served as an Assistant Professor at ICT, Mumbai–Marathwada Campus for two years. During his tenure at ICT, he taught Engineering Mathematics and conducted computer laboratory courses involving Python and R for statistical simulation, as well as Processing Simulation Lab (PSL) courses for Integrated M.Tech. Chemical Engineering students. He also guided two Integrated M.Tech. students in their in-plant training projects.

His research interests include Numerical Heat Transfer and Fluid Flow, Simulation of Turbulent flows, Optimization techniques, Physics-Informed Neural Networks (PINNs) and Statistical Simulation. Dr. Maji has published eight research papers and one book chapter in Scopus/SCI-indexed journals, along with one conference publication. He is actively interested in fostering research collaborations and interdisciplinary projects and also inspire students to pursue academic excellence, innovative projects, and research.

2. RESEARCH INTERESTS

- Numerical Heat Transfer and Fluid Flow
- Computational Fluid Dynamics
- Optimization Techniques
- Physics-Informed Neural Networks (PINNs)
- Statistical Simulation

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics — Institute of Chemical Technology (ICT), Mumbai, 2020
- M.Sc in Mathematics — Utkal University, 2009
- B.Sc (Hons) in Mathematics — Midnapore College, Vidyasagar University, 2007

4. PROFESSIONAL EXPERIENCE

- Assistant Professor — Dayananda Sagar University (DSU), August, 2023- Present
- Assistant Professor — Vivekanand Education Society's Institute of Technology (VESIT), April, 2023-August 2023
- Assistant Professor — Institute of Chemical Technology (ICT), May-2021-March, 2023
- Assistant Professor — Thakur College of Engineering and Technology (TCET), March, 2021-May, 2021
- Assistant Professor — Veermata Jijabai Technological Institute (VJTI), Mumbai, Aug 2019–Dec 2019
- Lecturer — Gandhi Institute for Education & Technology (GIET), April 2010–March 2013

5. RESEARCH HIGHLIGHTS

- Publications: 09
- Books/Book Chapters: 1 Book Chapter
- Research Projects: August 2025—present, Projects: AI Based Smart Active Health Monitoring using UAV, Dr. Avinash Kumar Saurav (PI), Dr. Srimanta Maji (Co-PI) & Prof. Sripad Kulkarni S (Co-PI) under DSU Seed Money Grant

6. SELECTED PUBLICATIONS

1. S. Maji*, S. Krishnamurthy, and B. S. N. Urs, “Development of a hybrid algorithm for the simulation of Burgers’ equation when viscosity approaches zero,” *Boletim da Sociedade Paranaense de Matemática*, Vol. 44, No. 4, 2026.
2. N. K. Das, S. Maji, N. Saha, A. Das, and A. Biswas, “Modulational instability of constant intensity waves with PT-symmetric Wadati-Mathieu potential for polynomial law of self-phase modulation,” *EPL*, Vol. 154, No. 3, 2026.
3. S. Maji* and A. K. Sahu, “Modeling, simulation and mixing time calculation of stirred tank for nanofluids using Partially-Averaged Navier-Stokes (PANS) ($k_u-\epsilon_u$) model turbulence model,” *Physical Sciences Reviews*, De Gruyter, 2024.
4. S. Maji* and A. K. Sahu, “Numerical investigation of dual solutions in mixed convection boundary layer flow over a vertical flat plate for nanofluids under quasilinearization technique,” *SN Applied Sciences*, Vol. 3, No. 11, pp. 1–13, 2021.
5. S. Maji* and A. K. Sahu, “Turbulent flow simulation of stirred tank using Partially-Averaged Navier-Stokes ($k-\epsilon_u$) model,” *SN Applied Sciences*, Vol. 3, No. 5, pp. 1–16, 2021.

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=wd5DW1wAAAAJ&hl=en>
- ORCID: <https://orcid.org/0000-0002-9803-2371>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=58061433800>
- ResearchGate: <https://www.researchgate.net/profile/Srimanta-Maji/research>

8. CONTACT

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