



DR. K. POOJA LAKSHMI

Assistant Professor

Department of Mathematics

School of Engineering

Dayananda Sagar University, Bengaluru,
Karnataka, India.

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

1. ABOUT

Dr. K. Pooja Lakshmi is currently working as an Assistant Professor in the Department of Mathematics, School of Engineering, Dayananda Sagar University, Karnataka, India. She received her Ph.D. in Mathematics from Amrita Vishwa Vidyapeetham (Deemed to be University), Coimbatore, India, in 2026. She obtained her Master of Science (M.Sc.) in Mathematics with First Rank and Distinction from Amrita Vishwa Vidyapeetham (Deemed to be University), India, and her Bachelor of Science (B.Sc.) in Mathematics from Mahatma Gandhi University, Kottayam, Kerala, India.

Her research interests include synchronization analysis, time-delayed neural networks with uncertainties, and time-delayed impulsive control. She has published multiple Q1 research articles in SCIE and Scopus-indexed peer-reviewed international journals. Her research contributes to the advancement of secure and robust control strategies for delayed neural networks with time delays and uncertainties.

2. RESEARCH INTERESTS

- Neural Networks with Time Delays and Uncertainties
- Synchronization Analysis
- Impulsive Control with Delays

3. ACADEMIC QUALIFICATIONS

- Ph.D. in Mathematics — Amrita Vishwa Vidyapeetham (Deemed to be University), Coimbatore, Tamil Nadu, 2026.
- Master of Science in Mathematics — Amrita Vishwa Vidyapeetham (Deemed to be University), Coimbatore, Tamil Nadu, 2021.
- Bachelor of Science in Mathematics — Mahatma Gandhi University, Kottayam, Kerala, 2019.

4. PROFESSIONAL EXPERIENCE

- Research Scholar — Amrita School of Physical Sciences, Amrita Vishwa Vidyapeetham, Kochi Campus, Kerala, [4 years and 7 months].

5. RESEARCH HIGHLIGHTS

- Publications: 3
- Awards/Recognitions: Secured 1st rank with distinction in M.Sc. Mathematics.

6. SELECTED PUBLICATIONS

1. K. Pooja Lakshmi, T. Senthilkumar, A. Vinodkumar, J. Alzabut, and M. Tounsi, "Novel insights on distributed delayed flexible impulsive control for mixed delay complex-valued neural networks." *Journal of Mathematics and Computer Science* 41, 307–321, 2026.
DOI: <https://dx.doi.org/10.22436/jmcs.041.03.02>
2. K. Pooja Lakshmi and T. Senthilkumar, "Synchronization results for uncertain complex-valued neural networks under delay-dependent flexible impulsive control." *Chaos, Solitons & Fractals* 178, 114338, 2024. DOI: <https://doi.org/10.1016/j.chaos.2023.114338>
3. K. Pooja Lakshmi and T. Senthilkumar, "Robust exponential synchronization results for uncertain infinite time-varying distributed delayed neural networks with flexible delayed impulsive control." *Mathematics and Computers in Simulation* 209, 267-281, 2023.
DOI: <https://doi.org/10.1016/j.matcom.2023.02.009>

7. ACADEMIC PROFILES

- Google Scholar: <https://scholar.google.com/citations?user=IB8pw2MAAAAJ&hl=en>
- ORCID: 0009-0008-4788-5973
- Scopus: 58726675400
- ResearchGate: https://www.researchgate.net/profile/K-Pooja-Lakshmi?ev=hdr_xprf

8. CONTACT

Department of Mathematics
 School of Engineering
 Dayananda Sagar University
 Bengaluru, Karnataka, India – 562112.
 Official Email: pooja-maths@dsu.edu.in