

Dr.P. Ramesh

Assistant Professor

Contact information

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Educational Qualification: D.T.Ed.,M.Sc.,M.Phil.,TNSET.,Ph.D.

Teaching Experience: 2 years

Area of research: Mathematical Biology & Fractional Differential Equation

Research Publication:

1. M.Sambath, **P. Ramesh** and K. Balachandran, Asymptotic behavior of the fractional-order three species prey-predator model, *International Journal of Nonlinear Sciences and Numerical Simulation*, 19 (2018) 721-733.
2. **P. Ramesh**, M. Sambath, Mohd Hafiz Mohd and K. Balachandran, Stability analysis of the fractional-order prey-predator model with infection, *International Journal of Modelling and Simulation* **41(6)** (2020) 434-450.
3. **P. Ramesh**, M. Sambath, K. Balachandran and Mohd Hafiz Mohd, Hopf bifurcation and synchronization of a fractional-order butterfly-fish chaotic system, *Journal of Control and Decision* 9(1) (2022): 117-128.
4. M. Sambath, **P. Ramesh** and K. Balachandran, Stability analysis of Fractional-order stage structure Prey-Predator model, *Indian Journal of Industrial and Applied Mathematics*, 11(2) (2020)208-221.
5. **P. Ramesh**, M. Sambath and K. Balachandran, Stability analysis of fractional-order CHIKV infection model with latency, *Discontinuity, Nonlinearity, and Complexity*11(1) (2022) 33-48.
6. **P. Ramesh**, Bifurcation analysis of fractional-order VD model, *International Journal of Dynamical Systems and Differential Equations*11(5-6) (2021) 542-565.

7. **P. Ramesh** Stability Analysis Two Dimensional Fractional-Order Prey-Predator Model, *NIU International Journal of Human Rights*, 9(1) 2022 162-168.

Papers presented in the conferences:

1. Presented the paper “**Bifurcation analysis of fractional-order VD model**” at the International Conference on Dynamical Systems, Mathematical Modelling and Computing Techniques (ICDSMMCT-2019) held from 14.02.2019 to 16.02.2019 at Department of Mathematics, Gandhigram Rural Institute, Gandhigram, Dindigul.
2. Presented the paper “**Qualitative analysis of fractional-order prey-predator model**” at the 2nd International Conference on Mathematical Modeling and Applied Analysis and Computing (ICMMAAC-2019) held from 08.08.2019 to 10.08.2019 at Department of Mathematics, Faculty of Science, JECRC University, Jaipur, Rajasthan-303905.
3. Presented the paper “**Local and global stability of the fractional-order prey-predator model**” at the National Conference on Partial differential equations and applications (ICMMAAC-2019) held from 05.03.2020 to 06.03.2020 at Department of Mathematics, Periyar university, Salem-636011.

Awards:

- Best Ph.D thesis award of Periyar University in the academic year of 2020-2021

Events:

1. Organized Guest lecture “**Introduction to stochastic Process**” held on 27.09.2021 at Rathinam College of Arts and Science, Coimbatore.
2. Organized Seminar of “**Research Review of Toroidality of Algebraic Graphs**” held on 27.01.2022 at Rathinam College of Arts and Science, Coimbatore.
3. Delivered a guest lecture on “**Probability and Queuing Theory**” in Narasu’s Sarathy Institute of Technology, Salem on 07.06.2022.