

Faculty Profile

Personal Details

Name: MARY VINAYA

Department: Physics

Designation: Assistant Professor

Date of Joining: 26-07-2010

Educational Qualifications: M.Sc, B.Ed.

Professional Experience:

Research Interests: Doing research on “Chaotic dynamics of some systems”

Major and Minor Projects: nil

Honors and Awards : nil

Positions held in College: Served as SSP Coordinator, Arts Club member, staff in charge of SC-ST & Minority cell

Membership in Professional Organizations: -nil

Publications:

- “*Electromagnetic radiation modulates synchronization in Cortical neurons of macaque brain*”, Mary Vinaya, Rose P Ignatius, Accepted in *International Journal of Modern Physics C: Computational Physics and Physical Computation*.
- “*Effect of Levy noise on the networks of Izhikevich neurons*”, Mary Vinaya, Rose P Ignatius, *Nonlinear Dynamics*, Vol. 94, No. 2, p. 1133-1150 (2018). ISSN 0924-090X
- “*Synchronization of Lu, Lorenz and Chen Systems*” is published in *Aquinas Journal of Multidisciplinary Research Studies*, Vol.1, Issue 1, ISSN 2395- 7751.
- “*Synchronization of Liu, Rössler and Sprott-K systems via adaptive control technique*” published in the Proceedings of the **23rdSwadeshi Science Congress** organised by M. G. University, Kottayam and sponsored by CSIR held from 6th to 8th November, 2013.

- “*Adaptive control technique for synchronization of Liu, Chen and Tigan systems*” published in the Proceedings of **8th International Conference on Nonlinear Systems and Dynamics** held at IIT, Indore from 11th to 14th December 2013, sponsored by UGC CSIR, DST et al.
- “*Adaptive combination synchronization of three different chaotic systems for a secure communication scheme*” published in the Proceedings of **National Symposium on New Horizons of Astronomy and Astrophysics** sponsored by UGC, held at St. Teresa’s College, Ernakulam on 9th and 10th January 2014.

Books: nil

Book Chapters: nil

Refresher and Orientation Course Attended:

1. *Orientation Programme (IT Oriented) conducted by UGC-HRDC, University of Kerala, Kariavattom from 26-04-2011 to 23-05-2011*
2. *Annual Refresher Programme in Teaching (Refresher Course - Curriculum Design and e - content development)*