Bio-Data

Name : Dr. K. Radhakrishnan

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Address (Official) : Assistant Professor,

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Date of Birth : 31-05-1973

Qualifications : MSc Mathematics (University of Kerala, 1995)

PhD. Applied Mathematics (Cochin University of Science and

Technology, 2004)

PhD Thesis : Theory and Simulation of Rheological Parameters of Periodically

Forced Semi-dilute Suspensions of Slender Rods in simple Shear

Flow

Other Information:

- MSc First Rank
- Oualified NET
- Awarded CSIR Research Fellowship
- Two years of research experience at Regional Research Laboratory, CSIR, Trivandrum

Teaching Experience:

- Worked as Lecturer in Mathematics at LBS College of Engineering, Kasaragod, Kerala during the period 14-07-1999 to 01-09-2003.
- Worked as Lecturer in Mathematics at LBS Institute of Technology for Women, Thiruvananthapuram, Kerala during the period 02-09-2003 to 17-11-2004.
- Worked as Lecturer in Mathematics at NSS College, Nilamel, Kollam, Kerala during the period 18-11-2004 to 30-06-2009.
- Working as Assistant Professor in Mathematics at Mahatma Gandhi College, Thiruvananthapuram, Kerala since 01-07-2009.

Field of Interest: Non-linear Dynamics, Chaos Theory, Functional Analysis

Projects Handled:

- UGC Minor Research Project:
 Title of the Project: Study of Possibility of Chaotic Dynamics of Rheological Parameters of Semi-dilute Suspensions of Slender Rods in Simple Shear Flow Without Any External Periodic Force. (2014-16).
- Guided Abhijith Aajayakumar on his Minor Research Project "Hilbert Space" under ASPIRE Scholarship. (2016-17)

List of Publications:

- 1. "Theory for Semi-dilute Suspensions of Periodically Forced Slender Bodies Aligned Along Finite Set of directions," Journal of Chemical Engineering of Japan, Vol 32, No. 5, pp 573-580, 1999.
- 2. "Numerical Evidence for the Existence of a Low Dimensional Attractor and Its Implications in the Rheology of Dilute Suspensions of Periodically Forced Slender Bodies," Physical Review E., USA, Vol 60, No. 6, pp 6602-6609, 1999.
- 3. "Simulation of Semi-dilute Suspension of Slender Rods: A Test Case," Journal of Chemical Engineering of Japan, Vol 35, No. 8, pp 744-752, 2002.
- 4. "Effect of Hydrodynamic Interaction on Chaos Control in Semi-dilute Suspensions of Periodically Forced Slender Rods in Simple Shear Flow," Journal of Chem. Engineering of Japan, Vol 37, No. 11, pp 1408-1414, 2004.
- 5. "Review of Chaos in the Dynamics and Rheology of Suspensions of Orientable Particles in Simple Shear Flow Subject to an External Periodic Force," Journal of Non-Newtonian Fluid Mechanics, Vol 129, pp 128-142, 2005. (Holland)

Books/Chapters in Books Published:

1. "Suspension Rheology As A Paradigm System for Study of Aspects of Spatiotemporal Chaos," Nonlinear Dynamics: Integrability and Chaos, pp 305-312,. (Narosa Publishing House, 2000).

Invited Talks:

1.	"Open Software" at Mar Chrysostom College of Arts and Science, Adoor, Kerala on 13-11-2017.
	Dr. K. Radhakrishnan