

Curriculum Vitae

1. Name: Dr. K. Srikanth

2. Nationality: Indian

3. Address for Communication:

Department of Mathematics, RGNIYD,
Sri Ram Nagar, Sriperumbudur, Tamil Nadu 602105
Email: srikanthhow@gmail.com

4. Academic Qualifications:

- PhD in Mathematics from the Central University of Tamil Nadu, Thiruvavur (2023).
- M.Sc. in Applied Mathematics from the Osmania University, Hyderabad (2009).
- B.Sc in Mathematics, Physics, Chemistry from the Osmania University (2007).

5. Areas of Specialization:

- Bio-fluid dynamics, flow through porous medium.

6. Current Research Interest: The analysis of active swimmers suspension with oscillation influence in various configurations.

7. Present Position: Assistant Professor (on contract) in Department of Mathematics

8. Immediate Past Position: Guest Faculty (on contract) in Department of Mathematics, RGNIYD.

9. Other Important Academic and Administrative Assignments:

10. Total Teaching Experience: 08 years

11. Total Research Experience: 06 years

12. Training Experience: NA

13. Invited Lecture Delivered in the Last Three Years: NA

14. Conference/Workshop/Seminar Attended in the Last Three/Five Years (provide a list):

1. A National e-conference on Recent Trends in Fluid Dynamics Research (RTFDR-21), NIT Rourkela, India April 2-4, 2021
2. 2nd International Conference on Fluids under Confinement, IIT Kharagpur Kharagpur, India March 14-31, 2021
3. 1st International Conference on Applied Analysis, Computation and Mathematical Modelling in Engineering (AACMME-2021), NIT Rourkela, India February 24-26, 2021
4. Advanced Training School on Numerical Partial Differential Equations, IIT Tirupati, Tirupati, Andhrapradesh, India, December 9-20, 2019
5. Short-term course on Finite Element Method for Engineers and Researchers (FEMER-2019), IIT Mandi, Mandi, Himachal pradesh, India June 24-28, 2019
6. Second National Conference on Control and Inverse Problems (CIP 2019), Central University of Tamil Nadu, Thiruvavur, India March 1-2, 2019



7. International Workshop On Mathematical Modelling And Scientific Computing (IWMSC 2018), VIT Vellore, Tamilnadu, India April 9-10, 2018

15. Award Received (indicate the name of the Institute):

16. Experience of Supervision of Doctoral Thesis: NA

17. Research Projects (On-going and completed): NA

18. Consultancy Services: NA

19. Member of Any Academic/Professional Body:

- Life member of the Indian Mathematical Society (IMS)
- Life member of the Indian Science Congress Association (ISCA)

20. Book (Edited and Written): NA

21. List of Publication in the Recognized Journals (last five years):

1. Kumar, V., Srikanth, K. An overstability analysis of vertically vibrated suspension of active swimmers subjected to thermal stratification. *SN Applied Sciences*, **3**, 612 (2021). (Impact Factor: 2.6), Springer, <https://doi.org/10.1007/s42452-021-04545-0>
2. Virendra Kumar, K. Srikanth, Vertically oscillated gyrotactic bio-thermal convection in a porous media, *Forces in Mechanics*, Volume 9, 2022, 100136, Elsevier, <https://doi.org/10.1016/j.finmec.2022.100136>
3. Kumar, V., Srikanth, K. & Grover, D. Darcy–Brinkman analysis of thermo-vibrational convection in gyrotactic swimmers: an overstability theory. *Journal of Thermal Analysis and Calorimetry*, **148**, 10189–10201 (2023). (Impact Factor: 4.4) , Springer <https://doi.org/10.1007/s10973-023-12383-y>
4. Srikanth, K., Kumar, V. (2022). Non-Darcian Gravitactic Bioconvection with a Porous Saturated Vertical Vibration. In: Ray, S.S., Jafari, H., Sekhar, T.R., Kayal, S. (eds) Applied Analysis, Computation and Mathematical Modelling in Engineering. AACMME 2021. *Lecture Notes in Electrical Engineering*, vol 897. Springer, Singapore. https://doi.org/10.1007/978-981-19-1824-7_4
5. Kummari Srikanth, Kumar, V. (2024). Gravitactic Bio-Thermal Convection Oscillates Vertically in a Porous Layer. In: Das, S., Mangadoddy, N., Hoffmann, J. (eds) Proceedings of the 1st International Conference on Fluid, Thermal and Energy Systems. ICFTES 2022. *Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-99-5990-7_60

22. Any Other Relevant Information

Events Organized:

- **Co-Convener;** Organized a National conference on Mathematical Modeling Analysis and Computation (NCMMAC-23), June 6-7, 2023, at Rajiv Gandhi National Institute of Youth Development, Sriperumbudur.
- **Convener;** Organized a Seminar on National Mathematics Day-2023, December 22, 2023, at Rajiv Gandhi National Institute of Youth Development, Sriperumbudur.

MSc Projects:

- Academic Year 2022-23, Number of M.Sc students guided: 04
- Academic Year 2023-24, Number of M.Sc students guided: 06 (on going)