

Faculty Profile



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Academic Qualification : Dr. Asha S. K studied her M.Sc degree in Mathematics from Gulbarga University, Gulbarga. She completed her M.Phil., degree from Gulbarga University, Gulbarga and obtained her Ph.D degree in Fluid Dynamics under the supervision of Prof. V. P. Rathod, Professor in Mathematics, Gulbarga University, Gulbarga.

Teaching Experience :

- (2009- 2012) Assistant Professor in Mathematics in Field Marshal K.M. Carriappa College, Madikeri, A Constituent College of Mangalore University, Mangalagangotri.
- (2012 – till date) Department of Mathematics, Karnatak University, Karnatak University, Dharwad in March 2012.

Area of Research: Fluid Dynamics.

Research Guidance: Ph.D- Awarded -02, Working -05

Award: Received **Best Paper award** in **4th International conference on Recent Scenario in Pure and Applied Mathematics (ICCSPM 2021)**

List of recent publications:

1. Asha S K and Sunitha G “Thermal radiation and Hall effects on peristaltic blood flow with double diffusion in the presence of nanoparticles”, *Case studies in thermal Engineering* , Vol 4, 100557 (2020) .(Elsevier) **Impact Factor: 4.08**
DOI: <https://doi.org/10.1016/j.csite.2019.100560>

2. Asha S K and Sunitha G, "Bioconvection peristaltic flow of nano Eyring–Powell fluid containing gyrotactic microorganism" *SN Applied Sciences*, (2019) 1:127 (**Springer**) **Impact Factor 2.15** DOI: <https://doi.org/10.1007/s42452-019-1281-y>
3. Asha S K and Deepa C K, Influence of Induced Magnetic Field and Heat Transfer on Peristaltic Transport of a Micro polar fluid in a Tapered Asymmetric Channel, Heat Transfer- Asian Research, **14 (1) (2019), 78-87. (Wiley online) Impact Factor: 1.08** DOI: <https://doi.org/10.1002/htj.21507>
4. Asha S K and Sunita G, Effect of joule heating and MHD on peristaltic blood flow of Eyring–Powell nanofluid in a non uniform channel, Journal of Taibah university of Sciences, 13(1)(2018), 155-168, ISSN: 1658-3655, **Impact Factor: 2.4092. (Taylor and Francis)** DOI: <https://doi.org/10.1080/16583655.2018.1549530>
5. Asha S K and Sunita G, Effect of joule heating and MHD on peristaltic blood flow of Eyring–Powell nanofluid in a non uniform channel, Journal of Taibah university of Sciences, 13(1)(2018), 155-168, ISSN: 1658-3655, **Impact Factor: 2.4092. (Taylor and Francis)** DOI: <https://doi.org/10.1080/16583655.2018.1549530>
6. Asha S K and Deepa C K, "Entropy generation for Peristaltic blood flow of a Magneto-micropolar fluid with thermal radiation tapered asymmetric channel, Result in Engineerin, 3(2019), 100024 (Elsevier) **Impact Factor: 0.68** <https://doi.org/10.1016/j.rineng.2019.100024>
7. Asha S K and Deepa C K "Bioconvective Peristaltic flow of a third grade nanofluid embodying gyrotactic microorganisms in a presences of Cu-blood nanoparticles with Permeable walls" *Multidiscipline Modeling in Material and Structure*, (**Emerald Insight**) (2020) DOI [10.1108/MMMS-02-2020-0025](https://doi.org/10.1108/MMMS-02-2020-0025)
8. Asha S K and Sunitha G "Influence of thermal radiation on peristaltic blood flow of Jeffrey fluid with double diffusion in the presence of gold nanoparticles" *Informatics Medicine unlocked* , 17 (2019), **100272, (Elsevier)** DOI: <https://doi.org/10.1016/j.imu.2019.100272>
9. Asha S K and Sunitha G "Double diffusion on peristaltic flow of nanofluid under the influence of magnetic field, porous medium and thermal radiation. *Engineering Reports*, 2019 (Wiley) Doi:[10.1002/eng2.12111](https://doi.org/10.1002/eng2.12111).
10. Asha S K and Deepa C K "Thermo diffusion and diffusion thermo upshots on MHD third grade nanofluid flow driven by peristaltic transport" *Arabian Journal for Science and Engineering*, Vol. 3 (2020) (**Springer**) **Impact Factor 2.89** <https://doi.org/10.1007/s13369-020-04590-8>