


Faculty Name	Prof. Deepa C Katagi	
Department	Mathematics	
Specialization		
Experience in Years	0.6	
Area of Interest	Fluid Mechanics, Applied Mathematics, Mathematical Modelling.	
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Seminar/Workshop Attended:01

- Participated successfully in the workshop on Computational Fluid Dynamics: Traditional Finite-Volume Technique organized by **Indian Institute of Technology, Dharwad** held during 11th-15th June 2018.

Paper Publication:08

1. *Entropy generation for peristaltic blood flow of a magneto-micro polar fluid with thermal radiation in a tapered asymmetric channel*, Results in Engineering, (**Elsevier**) 3 (2019) 100024, [ISSN: 2590-1230].
2. *Influence of induced magnetic field and heat transfer on peristaltic blood flow of a magneto-micro polar fluid in a tapered asymmetric channel*, Heat transfer-Asian Research, (**Wiley**)48 (2019) 2714-2734, [ISSN:1523-1596].
3. *Thermo-Diffusion and Diffusion-Thermo Effects on MHD third grade nanofluid flow driven by peristaltic transport*, Arabian Journal for Science and Engineering, (**Springer**).45:4995–5008 (2020).

4. *Biconvective peristaltic flow of a third grade nanofluid embodying microorganisms in the presence of Cu-blood nanoparticles with permeable walls.*, Multidiscipline Modelling in Materials and Structures, **(Emerald)** .
5. *Mixed convection in MHD Peristaltic flow of a pseudoplasticnanofluid in an asymmetric channel*, Journal of Computer and Mathematical Sciences, 9(7) (2018) 736-747, [ISSN:2319-8133].
6. *Effect of inclined magnetic field and Mixed Convection peristaltic flow of nanofluids in an asymmetric channel by adomian decomposition method*, Journal of Applied Sciences and Computations, 5(9) (2018) 134-147. [ISSN: 1076-5131].
7. *Impacts of Hall Current and Heat Transfer on Peristaltic blood flow of a MHD Jeffrey fluid in a Vertical Asymmetric Porous Channel*, International Journal of Advances in Applied Mathematics and Mechanics, 6(4)(2019) 52-63. [ISSN: 2347-2529].
8. *Peristaltic flow of a third grade fluid accounting Joule heating and magnetic field effects in an asymmetric channel*, World Scientific News Publishing, 137 (2019) 1-17, [ISSN:2392-2192].

Internship/Conference attended: 05

- Presented a research paper entitled “Peristaltically assisted nanofluid transport in an asymmetric channel” in National Conference on Analysis and its applications held at Department of Mathematics, Karnatak University Dharwad during 9th and 10th March 2018.
- Presented a research paper entitled “Peristaltic flow of nanofluids with mixed convection and effect of inclined magnetic field” in International Conference on Advances in pure and applied mathematics” held at School of Mathematics, Madurai Kamaraj University, Madurai, Tamil Nadu, during Sep-06-08, 2018.
- Presented a research paper entitled "Effect of induced magnetic field and heattransfer on peristaltic transport of a micropolar fluid in a tapered asymmetric channel" at "International Conference on Mathematics" held at KLEs RajaLakhamagouda Science Institute, Belagavi, held during December 27th to 29th,2018.

- Presented a research paper entitled "Entropy generation for peristaltic blood flow of a magneto micro polar fluid with thermal radiation in a tapered asymmetric channel" at "International Conference on Emerging Trends in Computational fluid Dynamics" held at Department of Mathematics, Christ (Deemed to be University) Bangalore, India during February 27th and 28th 2019.
- Presented a poster on the research paper entitled "Thermo diffusion and diffusion thermo upshots on MHD third grade nanofluid flow driven by peristaltic transport" at "National Conference on Mathematics and its Applications" held at Department of Mathematics, Karnatak University, Dharwad during November 7th and 8th 2019.

Recognized State/National/International Projects: