

**Sri Sai Ram Engineering College**  
**Department Of Humanities And Sciences**

*Name : A. Magesh*



*Designation :*

*Assistant Professor*

*Qualification :*

*M.SC, B.Ed, M.Phil, SET, PhD*

*Area of Specialization :*

*Fluid Dynamics*

*Experience :*

*Teaching : UG : 14 years and 03 months*

*PG : 9 years*

*Industry :*

*No. of Workshop / Conferences / FDP attended*

*Workshop – 1 / Conferences – 2 / FDP - 4*

*Publications :*

*Journals*

*National : nil*

*International : 15*

*Conferences*

*National :*

*International :2*

*Research Guidance :*

*Anna University guideship number*

*4270048*

## Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
<i>JEI Mathaajee College of Engineering</i>	<i>Assistant Professor</i>	<i>15-10-2009</i>	<i>17-06-2017</i>	<i>7</i>	<i>8</i>	<i>2</i>
<i>SMK Fomra Institute of Technology</i>	<i>Assistant Professor</i>	<i>19-06-2017</i>	<i>04-05-2018</i>	<i>0</i>	<i>10</i>	<i>16</i>
<i>JEI Mathaajee College of Engineering</i>	<i>Assistant Professor</i>	<i>05-05-2018</i>	<i>30-06-2022</i>	<i>4</i>	<i>1</i>	<i>25</i>
<i>Sri Sairam Engineering College</i>	<i>Assistant Professor</i>	<i>01.07.2022</i>	<i>Till date</i>	<i>1</i>	<i>6</i>	<i>18</i>
<b>Total</b>				<b>14</b>	<b>3</b>	<b>01</b>

## LIST OF INTERNATIONAL PUBLICATIONS

1. *A.Magesh, M.Kothandapani, 2021, 'Heat and mass transfer analysis on non-Newtonian fluid motion driven by peristaltic pumping in an asymmetric curved channel', The European Physical Journal-Special Topics, 230, 1447-1464. I.F:2.89*
2. *A.Magesh, M.Kothandapani, 2021, 'Analysis of heat and mass transfer on the peristaltic movement of Carreau nanofluids', Journal of Mechanics in Medicine and Biology, 22(1), 2150068. I.F:0.897*
3. *A.Magesh, M. Kothandapani, V.Pushparaj, 2021, 'Electro-osmotic flow of Jeffrey fluid in an asymmetric micro-channel under the effect of Magnetic field', Journal of Physics: Conference Series.1850, 012102. I.F:0.55*
4. *A Magesh, P Praveen Kumar, P Tamizharasi, R Vijayaragavan, S Vimal Kumar and M Kothandapani,2021, 'Effect of magnetic field on the peristaltic transport of Oldroyd-B fluid in an asymmetric inclined channel', Journal of Physics: Conference Series.1850, 012111. I.F:0.55*
5. *P.Tamizharasi, R.Vijayaragavan, A.Magesh, 2021, 'Heat and Mass transfer analysis of the peristaltic driven flow of nanofluid in an asymmetric channel', Partial Differential Equations in Applied Mathematics 4, 100087.*
6. *R.Vijayaragavan, P.Tamizharasi, A.Magesh, 2022, 'Brownian motion and thermophoresis effects of nanofluid flow through the peristaltic mechanism in a vertical channel', Journal of Porous Media, 25(6), 65-81.*

7. A.Magesh, P.Tamizharasi, R. Vijayaragavan, 2022, 'MHD flow of Al<sub>2</sub>O<sub>3</sub>/H<sub>2</sub>O nanofluid under peristaltic mechanism in an asymmetric channel' *Heat Transfer*, 1-15 <https://doi.org/10.1002/htj.22613>. I.F:1.71.
8. J.Kamalakkannan, C.Dhanapal, M.Kothandapani, A.Magesh, 2023, 'Peristaltic transport of non-Newtonian nanofluid through an asymmetric microchannel with electroosmosis and thermal radiation effects', *Indian Journal of Physics*. DOI : 10.1007/s12648-023-02636-9.
9. P.Tamizharasi, R Vijayaragavan, A Magesh, 2023, 'Electro-osmotic driven flow of Eyring Powell nanofluid in an asymmetric channel', *Mathematical Methods In The Applied Sciences*, DOI: 10.1002/MMA.9270.
10. A Magesh, P Tamizharasi, R Vijayaragavan, 2023, 'Non-Newtonian fluid flow with the influence of induced magnetic field through a curved channel under peristalsis'. *Heat Transfer*, Wiley online library. Doi: <https://doi.org/10.1002/htj.22912>.
11. Sara I. Abdelsalam, A. Magesh, P. Tamizharasi, A.Z. Zaher, 2023, 'Versatile response of a Sutterby nanofluid under activation energy: hyperthermia therapy' *International Journal of Numerical Methods for Heat & Fluid Flow*, Doi: <https://doi.org/10.1108/HFF-04-2023-0173>.
12. A.Magesh, P.Tamizharasi, J.Kamalakkannan, 2023, 'Analysis of Bejan number and entropy generation of non-Newtonian nanofluid through an asymmetric micro channel', *Numerical Heat Transfer, Part A: Applications*, Doi:10.1080/10407782.2023.2240507.
13. A Magesh, V Pushparaj, S Srinivas, P Tamizharasi, 2023, 'Numerical investigations of activation energy on the peristaltic transport of Carreau nanofluid through a curved asymmetric channel', *Physics of Fluids* 35 (10).
14. A.Magesh, P.Tamizharasi, O.D. Makinde, S. Srinivas, 2023, 'Analysis of activation energy on the Johnson Segalman nanofluid through an asymmetric microchannel: Numerical study', *International Journal of Modern Physics -B*, (Accepted).
15. P.Praveen Kumar, S. Balakrishnan, A.Magesh, 2023, Peristaltic transport of (Al<sub>2</sub>O<sub>3</sub> /H<sub>2</sub>O) nanofluid through a vertical asymmetric channel with MHD effects, *Journal of Propulsion Technology*, 44(6), 1198-1207. <https://doi.org/10.52783/tjjpt.v44.i6.3344>.

## **Conferences/Seminars/Webinars:**

1. *Presented the paper in the 2<sup>nd</sup> International Conference on Mathematical Modeling and Computational Methods in Science and Engineering (ICMMCMSE-2020) entitled 'Effect of magnetic field on the electro-osmotic flow of Jeffrey fluid in an asymmetric micro-channel' in 22-24 January 2020, Alagappa University, Karaikudi, Tamilnadu, India.*
2. *Presented the paper in the 5<sup>th</sup> International Conference on Applications of Fluid Dynamics (ICAFD-2020) entitled 'Heat and mass transfer analysis of  $(Al_2O_3 / H_2O)$  nano fluid in an asymmetric channel' in 13-15 December 2020, VIT university, Amaravathi, Andhra Pradesh, India.*
3. *Attended national conference at KMG college of Arts and Science, Gudiyatam in the topic of Mathematical analysis*

## **Resource person:**

*Gave the invited talk in the SEVEN-DAY ONLINE FACULTY DEVELOPMENT PROGRAMME "ENHANCE AND ENABLE THE POTENTIAL OF MATHEMATICS AND STATISTICS" entitled "Peristaltic motion of nanofluid in an asymmetric channel" organized by SRM Institute of Science and Technology from 02-01-2024 to 08-01-2024.*

## **Reviewer in International Journals:**

1. *Scientia Iranica.*
2. *Proceeding of the institution of Mechanical Engineers part E-Journal of process in Mechanical Engineering.*
3. *International journal of modern physics -B .*
4. *Plos one.*
5. *Heliyon*
6. *Physics of Fluids*
7. *Scientific Reports*
8. *International Journal of Modelling and Simulation.*