


## Profile

<b>Name of the Faculty</b>	Dr. Nemani Subadra	
<b>Designation</b>	Associate Professor	
<b>Department</b>	Freshman Engineering	
<b>Area of Interest</b>	Bio-mechanics, Fluid Dynamics, Operations Research	
<b>Subjects Taught</b>	All Mathematics Papers related to B.Tech., MBA and MCA	
<b>JNTUH Registration Id</b>	98150404-144356	
<b>College Staff Code</b>	SC0189	
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### Educational Qualifications:

S. No.	Degree	Specialization	University/College	Year
1	PhD	Mathematics	JNTUH	2018
2	M.A.	Education	IGNOU	2012
3	M.Phil.	Mathematics	Annamalai University	2009

4	M.Sc.	Mathematics	Osmania University	1999
5	B.Ed.	Mathematics, Physical Science	Osmania University	2000

### **Paper Publications:**

S. No.	Publication details
1	Influence of Slip of a Jeffrey Fluid Flow controlled by Peristaltic Transport with Nanoparticles in an Inclined Tube, <i>Science &amp; Technology Asia</i> , Vol 26, No.4, December 2021, pp: 197-207.
2	Heat and Mass Transfer Effects of Peristaltic Motion of A Jeffery Fluid in A Tube, <i>Thermal Science (SCI)</i> , Vol 25., Issue 2, December 2021, pp:S185-S192.
3	Thermal Effects on Peristaltic Transport in a Circular Elastic Tube, <b>Solid State Technology</b> , Vol. 64(2), June 2021, pp: 7881-7887.
4	Mathematical approach to study heat and mass transfer effects in transport phenomena of a non-Newtonian fluid, <i>AIP Conference Proceedings</i> , Oct 2020, 2269, 060006-1 to 060006-13.
5	Heat and mass transfer effects of Power-law fluid in an inclined tube, <i>AIP Conference Proceedings</i> , July 2020, 2246, 020055-1 to 020055-6.
6	A mathematical study on two layered bloodflow of a couple-stress fluid, <i>AIP Conference Proceedings</i> , July 2020, 2246, 020054-1 to 020054-9.
7	Influence of Slip and Heat and Mass Transfer Effects on Peristaltic motion of Power-law fluid Prone to the Tube, <i>Journal of Physics: Conference Series (IOP)</i> , June 2020, 1495; 012039.
8	Influence of Slip-on Peristaltic Motion of a Nanofluid Prone to the Tube, <i>Lecture notes in Mechanical Engineering of Springer</i> , 2017, pp. 519-526.
9	Heat and Mass Transfer Effects of Peristaltic Transport of a Nano Fluid in Peripheral layer, <i>Applications and Applied Mathematics: An International Journal (AAM)</i> , Dec 2017, 12(2), pp. 968-987.

10	Peristaltic Transport of a Micropolar Fluid with Nanoparticles in an Inclined Tube with Permeable Walls, <i>International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)</i> , October 2017, 4(10), pp. 1-10. <b>Received best research paper award</b> for this paper.
11	Peristaltic Transport of a Couple-Stress Fluid with Nanoparticles in an Inclined Tube, <i>International Journal of Engineering Trends and Technology (IJETT)</i> , June 2017, 48 (7), pp. 354-362.
12	Peristaltic Transport of a Couple-Stress Fluid with Nanoparticles Having Permeable Walls, <i>Journal of Nanofluids</i> , Aug 2017, 6(4), pp. 751-760.
13	Thermal Effects of Two Immiscible Fluids in a Circular Tube with Nanoparticles, <i>Journal of Nanofluids</i> , Feb 2017, 6(1), pp. 105-119.
14	Study of Peristaltic Motion of Nanoparticles of a Micropolar Fluid with Heat and Mass Transfer Effect in an Inclined Tube, <i>Procedia Engineering, Elsevier</i> , 2015, 127, pp.694–702. <a href="http://doi.org/10.1016/j.proeng.2015.11.368">http://doi.org/10.1016/j.proeng.2015.11.368</a> .
15	Peristaltic Transport of a Nanofluid in an inclined Tube, <i>American Journal of Computational Mathematics</i> , 2015, 5(4), pp. 117-128.
16	Directed graph algorithms for tours – a case study, <i>Journal of Emerging Trends in Engineering and Applied Sciences (JETEAS)</i> , 2011, 2 (4), pp. 615-618.

### **Books/Book Chapters Published:**

<b>S. No.</b>	<b>Publication details</b>
1	Published a book titled “Study of Peristaltic Transport of Nanofluids” with ISSN No. 978-613-9-57877-1 in the year 2018.
2	Published a book titled “Thermal Effects of Peristaltic Transport of non-Newtonian Fluids” with ISSN No. 978-613-9-89093-4 in the year 2018.

### **Experience:**

<b>Teaching</b>	22 Years
<b>Industry</b>	Nil
<b>Research</b>	10 Years
<b>Total Experience</b>	22 Years

