

Profile

Name of the Faculty	Dr. N. Subhadra	
Designation	Professor	
Department	Freshman Engineering	
Area of Interest	Bio Mechanics, Operations Research	
Subjects Taught	All Mathematics and Statistics Courses	
JNTUH Registration Id	98150404-144356	
College Staff Code	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

Publications Details:

S. No.	Publication details
1	Peristaltic Movement of a Bingham Fluid Disposed to the Tube containing Nanoparticles, <i>Lecture Notes in Networks and Systems</i> , 1296, 239-250. (Scopus Indexed)
2	Thermal effects of power-law fluid in an elastic tube, <i>Partial Differential Equations in Applied Mathematics</i> , 9 (2024) 100639, 1-7. (Elsevier Scopus Indexed).
3	COVID Catch- Mobility Rate, <i>Education and Society</i> , Volume 47, Issue 1, No.3, Jan-Mar 2023. (UGC Care).
4	Rheology of Blood Flow with Nano Particles in An Elastic Tube, Journal of Pharmaceutical Negative Results , Volume 13, Special Issue 5, pp: 1482-1494, 2022. (WoS).
5	Heat and Mass Transfer Effects of Peristaltic Motion of a Jeffery Fluid in a Tube, Thermal Science , Vol.25, Special Issue 2, pp: S185-S192, 2021. (SCI).
6	Influence of Slip of a Jeffrey Fluid Flow controlled by Peristaltic Transport with Nanoparticles in an Inclined Tube, <i>Science & Technology Asia</i> , Vol 26, No.4, December 2021, pp: 197-207.
7	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.
8	Thermal Effects on Peristaltic Transport in a Circular Elastic Tube, Solid State Technology , Vol. 64(2), June 2021, pp: 7881-7887.
9	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.
10	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.
11	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.
12	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.

13	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.
14	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.
15	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. Received best research paper award for this paper.
16	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.
17	Peristaltic Transport of a Couple-Stress Fluid with Nanoparticles Having Permeable Walls, <i>Journal of Nanofluids</i> , Aug 2017, 6(4), pp. 751-760.
18	Thermal Effects of Two Immiscible Fluids in a Circular Tube with Nanoparticles, <i>Journal of Nanofluids</i> , Feb 2017, 6(1), pp. 105-119.
19	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. http://doi.org/10.1016/j.proeng.2015.11.368 .
20	Peristaltic Transport of a Nanofluid in an inclined Tube, <i>American Journal of Computational Mathematics</i> , 2015, 5(4), pp. 117-128.
21	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:

S. No.	Publication details
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.

3	Published an article titled “Self-Repeating Robotic Arm” as chapter 08 in Book titled “Industrial Automation and Robotics: Techniques and Applications” by CRC Press in 2022.
4	Published an article titled “Home Assignments and Assessments in Online Learning” as chapter 09 in Book titled “Engineering Pedagogy Towards Outcome-Based Education” by CRC Press in 2022.
5	Published an article titled “Role of Learning Management Systems in Online Learning- A Case Study” as chapter 11 in Book titled “Engineering Pedagogy Towards Outcome-Based Education” by CRC Press in 2022.

Experience:

Teaching	24 years
Industry	Nil
Research	15 years
Total Experience	24 years