Vanitha G. P.

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Education

	Degree	Year	Institute	Specialization
1	Ph. D.	2025	Davangere University	Fluid Mechanics
2	M.Sc.	2012	Bangalore University	Mathematics
3	B.Sc.	2010	Bangalore University	PME

Professional Experience

	Date (from-to)	Designation	Organization
1	21.07.2015	Assistant Professor	SIT
2	--	--	--
3	--	--	--

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

----------NIL----------

Affiliations of Professional organizations

----------NIL----------

Awards and Honors

----------*NIL*----------

Courses Taught

Undergraduate Courses

- Engineering Mathematics-I
- Engineering Mathematics-II
- Engineering Mathematics-III
- Statistics and Probability
- Foundations of Mathematics

Postgraduate Courses

- Mathematical Foundations for Computer Applications

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1	NIL		

Research Areas

- Fluid Mechanics

Sponsored Projects

Ongoing Projects:

1. Title:
   Funding Agency: NIL
   Amount:
   Duration:
   Role:
2. Title:

Funding Agency: NIL
Amount:
Duration:
Role:

Completed Projects:

1. Title:
   Funding Agency: NIL
   Amount:
   Duration:
   Role:

2. Title:
   Funding Agency: NIL
   Amount:
   Duration:
   Role:

Publications

Journals

1. **G. P. Vanitha**, U. S. Mahabaleshwar, Z. G. Liu, X. Yang , B. Sundén (2023), Magnetohydrodynamic Marangoni boundary layer flow of nanoparticles with thermal radiation and heat transfer in a porous sheet, Case Studies in Thermal Engineering, Vol.44, 102815.

2. **G. P. Vanitha**, K. C. Shobha, B. P. Mallikarjun, U. S. Mahabaleshwar, G. Bognár (2023), Casson nanoliquid film flow over an unsteady moving surface with time-varying stretching velocity, Scientific Reports, Vol.13 (1), 4074.

3. **G. P. Vanitha**, U.S. Mahabaleshwar, M. Hatami, X. Yang (2023), Heat and mass transfer of micropolar liquid flow due to porous stretching/shrinking surface with ternary nanoparticles, Scientific Reports, Vol. 13(1), 3011.

4. **G.P. Vanitha**, U.S. Mahabaleshwar, M.S. Shadloo (2022), An impact of Richardson number on mixed convective flow of nanoparticles with heat and mass transfer, International Communications in Heat and Mass Transfer, Vol. 139, 106441.

5. K. N. Sneha, **G. P. Vanitha**, U. S. Mahabaleshwar, L. David (2021), Effect of Couple Stress and Mass Transpiration on Ternary Hybrid Nanoliquid over a Stretching/Shrinking Sheet with Heat Transfer, Micromachines, Vol. 13(10), 1694.

6. U. S. Mahabaleshwar, **G. P. Vanitha**, L. M. Perez, O. Manca. An MHD flow of an non-Newtonian fluids with CNTs and heat transfer across a linearly shrinking sheet with slip and Biot number. Journal of Magnetism and Magnetic Materials. (Scopus, Q1)

7. K.C. Shobhaa, G.P. Vanithab, B. Patil Mallikarjuna, U.S. Mahabaleshwarb, Gabriella Bognar, Liquid film flow over an unsteady moving surface with time-varying stretching velocity and inclined magnetic field, Alexandria Engineering Journal (2023) 74, 675–688.

8. **G.P. Vanitha**, U.S. Mahabaleshwar, M. Hatami, Heat and Mass transfer of Carbon nanotubes with Marangoni Convection in the porous medium with the presence of Heat source/sink and chemical reaction, Advances in Mathematical Modeling and Scientific Computing (2023).

9. U. S. Mahabaleshwar, G. P. Vanitha, Basma Souayeh, A Study of Casson Viscous Gas Flows and Heat Transfer Across A Linear Stretching/Shrinking Sheet by Considering Induced Slip, Mass Transpiration, Inclined Magnetic Force, and Radiation Effect, BioNanoScience (2023) 13:1052–1063.

10. U. S. Mahabaleshwar, G. P. Vanitha, L. M. P´erez, H. F. Oztop, Micropolar nanoparticles flow on a stretching/shrinking sheet with multiple slips, Chinese Journal of Physics 87 (2024) 646–664.

11. U. S. Mahabaleshwar, G. P. Vanitha, L. M. P´ erez, Emad H. Aly, and I. Pop, Exact solutions for magnetohydrodynamic nanofluids flow and heat transfer over a permeable axisymmetric radially stretching/shrinking sheet, Chin. Phys. B 33, 020204 (2024).

Conference Proceedings

48th National conference on Fluid mechanics and Fluid power (FMFP 2021)

Title: Impact of thermal radiation on free-forced convective nanofluid flow due to porous stretching/shrinking surface.

Venue: BITS Pilani, Pilani Campus, Rajasthan, India.

Date: December 27th - 29th 2021.

Book Chapters

1. **G. P. Vanitha**, U. S. Mahabaleshwar, Suvanjan Bhattacharya. Impact of thermal radiation on free-forced nanofluid flow due to porous stretching/shrinking surface **(Book chapter).**

Mathematical Modelling of Fluid Dynamics and Nanofluids. (Scopus Q1)

Books

- NIL

Editorial

- NIL

Reviewer of Journals

- NIL

(Please give details in IEEE format)

Editor/ Reviewer of Journal

- NIL

Patents

- NIL

Invited Lectures, talks and workshops

- NIL