



School of Mathematical & Computational Sciences

Department of Mathematics

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Personal Webpage Link:

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Name: Dr. Manish Kumar Gupta

Designation: Assistant Professor

Qualifications: D.Phil., M.Sc. (*Gold Medalist*)

Area of Interest/Specialization: Differential Geometry of Finsler Spaces

Experience: 15 years after doctoral degree

Assistant Professor in Guru Ghasidas Vishwavidyalaya since 2009.

Awards and Honors:

- Gold Medal for standing first in M.Sc. at University of Allahabad in 2003.
- Queen Victoria Silver Medal for standing first in M.Sc. at University of Allahabad in 2003.
- NET (JRF)-2003.
- Prof. H P Dikshit Memorial Award in 2021 by International Academy of Physical Sciences, Prayagraj

Research Projects

Completed project on '*Some Problems on Finsler Geometry and Its Applications*' of 6 Lacks funded by *UGC, New Delhi*.

Best Peer Reviewed Publication (up-to 10)

CITATIONS: 253

H-INDEX: 9

i 10- INDEX: 8

1. Geometrical and Numerical Analysis of Predator–Prey System Based on the Allee Effect in Predator, *International Journal of Bifurcation and Chaos*, **34-3** (2024), 2450033. (**Impact Factor 2.2**)
2. On Conformal-Matsumoto Change of m-th Root Finsler Metrics, *Facta Universitatis (NIS)*, 38-5 (2023) 895-903. (**ESCI**)

3. KCC Theory of the Oregonator Model for Belousov-Zhabotinsky Reaction, *Axioms*, 12(12) 2023; 1133. **(Impact Factor 2.0)**
4. Hypersurface of a Finsler Space Subjected to a Kropina Change with an h -Vector, *Proc. Natl. Acad. Sci., India, Sect. A Phys. Sci.*, (2017) 1-6. **(Impact Factor 1.544)**
5. KCC theory and its application in a tumor growth model, *Math. Meth. Appl. Sci.*, (2017) 1-18. **(Impact Factor 2.321)**
6. Jacobi Stability Analysis of Rössler System, *Int. J. Bifurct Chaos*, **27-4** (2017) 1750056.**(Impact Factor 2.2)**
7. Jacobi stability analysis of Modified Chua Circuit system, *Int. J. Geo. Methods Mod. Phys.*, **14-6**(2017) 1750089.**(Impact Factor 1.874)**
8. Hypersurface of a Finsler space subjected to an h -exponential change of metric, *Int. J. Geo. Methods Mod. Phys*, **13-10** (2016) 1650129.**(Impact Factor 1.874)**
9. Jacobi stability analysis of Rikitake system, *Int. J. Geo. Methods mod. Phys*, **13(7)** (2016) 1650098.**(Impact Factor 1.874)**
10. On hypersurface of a Finsler space with a special metric, *Acta Math. Hungar.* **120** (2008) 165-177.**(Impact Factor 0.623)**

Recent Books/Book Chapters/Monographs

Some Problems on Finsler Geometry, *LAP Lambert Academic Publishing*, Germany, ISBN No. 978-3-659-61785-0 (2015).

Research Supervision

Doctoral degree: 2 Awarded + 2 Ongoing

Sr. No.	Scholar Name	Topic	Present Status
1	Chirajeev Kumar Yadav	A Study on Finsler Geometry and Its Applications	Awarded on 22 January 2019
2	Anil Kumar Gupta	A Study on some transformations of Finsler metric	Awarded on 07 May 2019
3	Abha Sahu	Some Metric Transformations on Finsler Spaces	Registered on 16 December 2021
4	Suman Sharma	A Study on Hypersurface and Subspaces of Finsler Spaces	Registered on 16 December 2021

Administrative Responsibilities

Responsibilities	From	To
◆ Coordinator, Exam Section	April 2024	Cont..
◆ Hostel Warden	May 2023	Cont..
◆ Officer In-Charge (Confidential Section)	April 2017	Dec 2021
◆ Member of Proctorial Board	August 2016	August 2018
◆ Member of Anti-Ragging Committee	August 2016	August 2018
◆ Assistant Dean, Student Welfare	October 2012	Sept 2013

Membership of the Professional bodies:

- Life Member of Indian Science Congress Association.
- Life Member of Indian Mathematical Society.
- Life Member of International Academy of Physical Sciences.
- Life Member of Ramanujan Mathematical Society.
- Life Member of Calcutta Mathematical Society.

Academic Visit (Abroad)

- The 50th Symposium on Finsler Geometry during October 21-25, 2015 at Hiroshima University, Hiroshima, Japan.
- 15th International Conference of International Academy of Physical Sciences during December 9-13, 2012 at Rajamangala University of Technology Thanyaburi, Thailand.