

CURRICULUM VITAE

Dr. ABHA SAHU

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Personal Information

Father's Name : Mr. A. R. SAHU

Gender : Female

Date of Birth : 11 December 1996

Marital Status : Unmarried

Nationality : Indian

Permanent : Meenakshi Nagar, Borsi Road, Durg, 491001

CAREER OBJECTIVE

To make career in the field of mathematics and devote my whole potential in research so that it gives me good opportunity to expand my knowledge in professional growth & development and can contribute my best effort to the humanity for mutual benefit.

AREA OF INTEREST

Differential Geometry, Finsler Geometry, KCC Theory, Jacobi stability

EDUCATIONAL BACKGROUND

Qualification	University/Board	Year Of Passing	Percentage/CGPA
Ph.D.	Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur, C.G.	2024	Awarded
M.Sc(Mathematics)	Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur, C.G.	2019	75.6%
B.Sc. (Computer Science)	Pandit Ravishankar Shukla University,Raipur C.G.	2017	64.39%
12 th	CBSE	2014	78%
10 th	CBSE	2002	8 CGPA

WORK EXPERIENCE

Worked as Temporary faculty at the Department of Mathematics, National Institute of Technology, Raipur, India from September 2024 to June 2025.

PUBLICATIONS

1. M. K. Gupta, **Abha Sahu**, C. K. Yadav, Geometrical and Numerical Analysis of Predator-Prey System Based on the Allee Effect in Predator, *International Journal of Bifurcation and Chaos*, 34(03):2450033, 2024. <https://doi.org/10.1142/S0218127424500330> [SCIE, I.F. 2.2]
2. M. K. Gupta, **Abha Sahu**, C. K. Yadav, Anjali Goswami, Chetan Swarup, KCC Theory of the Oregonator Model for Belousov-Zhabotinsky Reaction, *Axioms*, 12(12):1133, 2023. <https://doi.org/10.3390/axioms12121133> [SCIE, I.F. 2.0]
3. M. K. Gupta, **Abha Sahu**, Cenap Ozel, On Douglas Tensor Of Infinite Series Finsler Space, *Facta Universitatis, Series: Mathematics and Informatics* 40(1) 2025 <https://doi.org/10.22190/FUMI230903005G> [ESCI]
4. M. K. Gupta, **Abha Sahu**, A. Tayebi, On Conformal Matsumoto change of m-th root Finsler metrics, *Facta Universitatis, Series: Mathematics and Informatics*, 38(5):895-903, 2023. <https://doi.org/10.22190/FUMI230830057G> [ESCI]
5. M. K. Gupta, **Abha Sahu**, On Douglas Tensor of Generalized Matsumoto Finsler Space, *Lobachevskii Journal of Mathematics*, 45(2):117-123, 2024. <https://doi.org/10.1134/S1995080224600328> [ESCI, I.F.-0.7]
6. M. K. Gupta, **Abha Sahu** On Matsumoto-Randers change on m-th root Finsler metric, *Palestine Journal of Mathematics*, 14(1) 262, 2025 [Scopus]
7. M. K. Gupta, **Abha Sahu**, Suman Sharma, About the invariance of the Cartan connection relative to a h-Matsumoto change, *Journal of Finsler Geometry and its Applications*, 2(6), 32-40, 2025. [10.22098/jfqa.2025.17203.1156](https://doi.org/10.22098/jfqa.2025.17203.1156) [Scopus]
8. M. K. Gupta, **Abha Sahu**, On the h (hv)-torsion tensor and the v-curvature tensor of Matsumoto change with an h-vector, *Advances in Mathematical and Computational Sciences*, 189, 2024 (Book Chapter)
9. M. K. Gupta, **Abha Sahu**, Special (α, β) -metric in a nonholonomic frame for a Finsler space, *Chhattisgarh Journal of Science and Technology*, 19(3), 2022.
10. M. K. Gupta, Suman Sharma, **Abha Sahu**, Projective h-Matsumoto change, *Journal of International Academy of Physical Sciences* 26 (4), 407-413, 2022.

CONFERENCES AND WORKSHOPS ATTENDED

1. National Institute of Technical Teachers Training and Research, Bhopal, organized a workshop on Outcome based Education from 22 January to 24 January 2025 at NIT Raipur, Chhattisgarh.

2. *International Conference on Differential Geometry and Relativity held on May 18-20, 2023, and organized by the Department of Mathematics, SSJ University Almora, Department of Applied Sciences, BTKIT Dawarahat, and the Tensor Society.*
3. *International Workshop on Mathematical Computations using software held on April 26-28, 2023, and organized by Akal University, Talwandi Sabo, Bathinda (Online)*
4. *4th International Conference on Mathematical Techniques and Application (ICMTA-2023) held on March 22-24, 2023 and organized by the Department of Mathematics, College of Engineering and Technology, SRM Institute of Science and Technology, Kottankalthur, Tamil Naidu, India.*
5. *International CIMPA School on Geometric Structures on Surfaces, Moduli Spaces and Dynamics held from 12-22 December 2022, organized by DST-Center for Interdisciplinary Mathematical Sciences, Institute of Science, Banaras Hindu University, Varanasi, India.*
6. *NCAPM-RAMAA 2022 held on 7th May and 8th May 2022, organized by DST-Centre Banaras Hindu University, Varanasi, India.*
7. *IWM-Regional Workshop on Research and Opportunities, organized by National Institute of Science Education and Research Bhubaneswar, Oct 27-28, 2018.*

LANGUAGE PROFICIENCY

English: Professional

Hindi: Native

Chhattisgarhi: Native

COMPUTER SKILLS

LaTeX, MS Office, MATHEMATICA.

DECLARATION

I hereby declare that the given information above is true to the best of my knowledge and belief, which can be supported with a reliable document if required.

Date: 18 November 2025

Place: Durg

Dr. Abha Sahu