

Curriculum Vitae

Dr. Keshav Ram Mishra

Assistant Professor

Department of Applied Science

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Area of Specialization: *General Relativity and Cosmology*



Academic Qualification:

- **Ph.D.** in Mathematics (2025), D.D.U. Gorakhpur University, Gorakhpur. (Ph.D. Thesis Submission Date: 11 July 2024).
- **M.Sc.** in Mathematics (2016), D.D.U. Gorakhpur University, Gorakhpur-India.
- **B.Sc.** with Physics, Chemistry and Mathematics (2014), Marwar Business School, (Affiliated to D.D.U. Gorakhpur University)
- **10+2** with Physics, Chemistry, Mathematics, Hindi and English (2011), Maharshi Arvind V.M. VMV, Kasia, Kushinagar, (U.P)-India.
- **10-th** standard with Hindi, English, Science, Mathematics, Social Science and Drawing (2009), Maharshi Arvind V.M. U.M.V, Kasia, Kushinagar, (U.P)-India.

Computing Experience:

- *Mathematica, Mathematica@RGTC, R-Software, Latex and Office.*

Research Experience:

Currently, I am working on research problems related to Late-time Acceleration, Gravitational Collapse, and Dark Energy. The following research papers have been published in reputed journals:

- Mishra, K. R., R. Kumar, and S. K. J. Pacif. *“Re-Examining Berman’s Parametrization of the Hubble Parameter in the Context of Late-Time Acceleration.”* *Astrophysics* (2024): 1-20. (Springer)
- Mishra, Keshav Ram, et al. *“Significance of a quadratically varying deceleration parameter in scalar field-dominated model and cosmic acceleration.”* *Modern Physics Letters A* (2024): 2450087. (World Scientific Publishing Company)
- Mishra, K. R., Pacif, S. K. J., Kumar, R., & Bamba, K. *“Cosmological implications of an interacting model of dark matter & dark energy.”* *Physics of the Dark Universe*, 40, 101211. (2023). (Elsevier).
- Verma, G., Kumar, R., & Mishra, K. R. *“Spherically symmetric collapsing star with the background of dark energy.”* *International Journal of Geometric Methods in Modern Physics* 19(10), 2250148. (2022). (World Scientific Publishing Company).
- Fatima, S., Verma, G., Pandey., A., & Mishra, K. R. *“Time-Decaying Λ Term in Bianchi Type V String Cosmological Models”* 2019 JETIR April 2019, Volume 6, Issue 4.

Research paper presentation in Conferences:

- Presented research paper entitled *“Cosmological implications of an interacting model of dark matter energy model with dark energy”* in (ICRDMSAIM-2023) organized by Department of Mathematics and Department of Computer Science SGTBK College, Sri Anandpurm sahib held on March 14-15, 2023.
- Presented a paper entitled *“A Cosmological Model of Accelerating Universe with a Simple Parametrization of Hubble Parameter”* in (RAETAS-2023), organized by Society Towards

Advancement of Rural Education in association with Maharana Pratap School of Pharmacy, Lucknow, held on September 05, 2023.

- Presented research paper entitled “*Exploring Cosmic Acceleration and Quintessential Dark Energy: Significance of a Quadratically Varying Deceleration Parameter*” in 70th Annual Conference of Bharat Ganita Parisad: Recent Advances in Mathematics and Application held on December 2 & 3, 2023 at the Department of Mathematics & Astronomy, University of Lucknow.
- Presented research paper entitled “*LRS Bianchi type-I Cosmological model with a Variable Deceleration Parameter in $f(R, T)$ Gravity*” in International Conference on Advancement in Natural Sciences Vedic to Modern Era" during Feb 22-24, 2024 at SRM University.

Participated in Workshops and Conferences:

- Participated in workshop on *General Relativity and Cosmology* jointly organized by GLA University, Mathura and IUCAA on 11-13 October 2019.
- Participated in workshop on *Scientific computing with R in Gravitational Theory* organized by Department of Mathematics and Statistics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur on 14-19 October, 2019.
- Participated in conference on *International Conference on Differential Geometry and Relativity (ICDGR-2019)* organized by Department of Mathematics and Statistics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur and Tensor Society on 8-10 Nov, 2019.
- Participated in webinar on “*The universe and Mathematical modeling*” organized by Department of Applied Mathematics JSSATE Noida on 11th June 2020.

Teaching Experience:

As a Guest Teacher

1. *Marwar Business School*, Gorakhpur, UP |*March 2023 – April 2024*/

- Taught Mathematics [BCA, B.Sc. and M.Sc.]
- Developed and delivered lectures and course materials

2. *Pt. HSPG College*, Belghat, Gorakhpur, UP |*July 2017 – May 2019*/

- Taught Mathematics [B.Sc.]
- Developed and delivered lectures and course materials
- Engaged students in [specific activities, discussions and projects]
- Assessed and graded student work

Personal Information:

- Father's Name : Late Ram Naresh Mishra
- Mother's Name : Usha Devi
- Date of Birth : 01-01-1995
- Gender : Male
- Marital Status : Single
- Nationality : Indian
- Address : Vill- Koindi Bujurg Post: Tamkuhi Raj Kushinagar, 274407

Declaration:

I hereby declare that the details started above are true and correct to the best of my knowledge.

Date: 04.03.2025

Place: Gorakhpur



(Keshav Ram Mishra)