

Curriculum Vitae

Dr. Keshav Ram Mishra

Assistant Professor

Department of Applied Science

KIPM College of Engineering and Technology Gida, Gorakhpur

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Area of Specialization: *General Relativity and Cosmology*



Academic Qualification:

- **Ph.D.** in Mathematics from D.D.U. Gorakhpur University, Gorakhpur.
- **M.Sc.** in Mathematics from D.D.U. Gorakhpur University, Gorakhpur-India.
- **B.Sc.** with Physics, Chemistry and Mathematics from Marwar Business School, (Affiliated to D.D.U. Gorakhpur University)
- **10+2** with Physics, Chemistry, Mathematics, Hindi and English from Maharshi Arvind V.M. VMV, Kasia, Kushinagar, (U.P)-India.
- **10-th** standard with Hindi, English, Science, Mathematics, Social Science and Drawing from Maharshi Arvind V.M. UMV, 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 Accepted/published in reputed journals:

- **Mishra, K. R.,** Verma, G., Prajapati, P., & Solanki, R. (2026). *“Thermodynamic Analysis of an LRS Bianchi Type-I Cosmological Model in $f(R, T)$ Gravity”* *Astrophysics - Springer* (Accepted: 08 April 2026).
- Verma, G., **Mishra, K. R.,** Prajapati, P., & Solanki, R. (2026). *“Impact of Rolling Scalar Fields on Gravitational Collapse and Structure Formation”* *International Journal of Theoretical Physics-Springer* (Accepted on 25 May 2026).
- **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- Springer* (2024): 1-20.
- **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: Currently working as an Assistant Professor in the Department of Applied Science and Humanities at KIPM College of Engineering and Technology, Gida- Gorakhpur (*August 2024 – Present*)

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]

Personal Information:

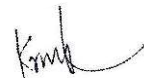
- Father’s Name: Late Ram Naresh Mishra
- Mother’s Name: Usha Devi
- Address: Vill- Koindi Bujurg Post: Tamkuhi Raj Kushinagar, 274407

Declaration:

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

Date: 27.05.2026

Place: Gida, Gorakhpur



(Dr. Keshav Ram Mishra)