

Bio-Data



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Radhe Hari Govt. P.G. College, Kashipur
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Personal Profile

Father's Name	Late Shri Man Mohan Joshi
Nationality	Indian
Date of Birth	19/12/1971
Sex	Male
Marital Status	Married
Address	55 Lahoriyan, Kashipur, Uttarakhand, India.

Educational Qualifications:

PhD (2002): Applied Physics Department, Institute of Technology, Banaras Hindu University, Varanasi.

Ph.D Thesis Title: Modal Characteristics of some Lightguides of Unusual Shapes.

Supervisor: Professor S.P. Ojha, Applied Physics Department, Institute of Technology, Banaras Hindu University, Varanasi.

NET (1999): Physics.

M.Sc (1994): Electronics, Radhe Hari Govt. P.G. College, Kashipur, Kumaun University, Nainital.

B.Sc (1991): Physics, Chemistry, Mathematics, , Radhe Hari Govt. P.G. College, Kashipur, Kumaun University, Nainital.

Intermediate (1987): PCM Group, Board of High School and Intermediate Education, U.P.

High School (1985): Board of High School and Intermediate Education, U.P.

Academic Position:

Assistant Professor (Physics): Department of Physics, Radhe Hari Govt. P.G. College, Kashipur, Kumaun University, Nainital.

Research Publications in International Journals:

1. Mahendra Joshi, Vivek Singh, B. Prasad, S.P. Ojha, *Lightguides with core cross-section bounded by two spirals: Effect of curvature on dispersion curves*, Optik, Germany 111 (2000).
2. Mahendra Joshi, Vivek Singh, B. Prasad, S.P. Ojha, *Modal dispersion characteristics of an elliptical optical waveguide having one-fourth of the cladding region loaded with highly conducting material*, Optik, Germany 111 (2000).
3. Mahendra Joshi, Vivek Singh, B. Prasad, S.P. Ojha, *An analytical study of the cutoff conditions and dispersion curves of an optical fiber with a core slightly flattened on one side*, Microwave and Optical Technology Letters, Wiley, U.S.A. 29 (2001).
4. Vivek Singh, Mahendra Joshi, B. Prasad, S.P. Ojha, *Modal dispersion characteristics and waveguide dispersion of an optical waveguide having a new unconventional core cross-section*, J. of Electromagn. Waves and Appl. 18 (2004).
5. Mahendra Joshi, *Boosted massive particles and corresponding little group analysis in the zero mass limit*, Material Science Research India, 7 (2010).
6. Mahendra Joshi, *Massive gauge boson and its generation: some comments and discussion*, Material Science Research India, 7 (2010).
7. Mahendra Joshi, Sanjay Singh, *Helecity-zero massless particles and their analysis*, International archive of applied sciences and technology, 6 (2015).
8. Sanjay Singh, Mahendra Joshi, *Behavior of degenerate one particle state under arbitrary Lorentz transformation*, International archive of applied sciences and technology, 7 (2016).
9. Mahendra Joshi, *Evolution Without Evolution: An Observer's View*, Edu Care, Vol. IX (2020).
10. Mahendra Joshi, *Canonical Geometroynamics and Global Problem of Time*, EDUCATION TODAY, Vol. XI (2021).
11. Mahendra Joshi, *Evolution via Projection*, Foundations of Physics, Vol. 53 (2023)

Conference/Seminars Participated:

1. Presented research paper (Physics) in Uttarakhand State Science and Technology Congress-2010 and also participated in National Seminar held in October 2010.
2. UGC Sponsored National Seminar on Contribution of Ancient Indian Mathematicians and its uses in present age, Organised by Department of Mathematics Government College Dongar Gaon (C.G) (2016).
3. National Seminar on Himalaya ka Lok aur Sangeet, Haldwani (2016).
4. Regional Conference on ill effects of fireworks, G.P.G.C. Ranikhet (2016)
5. National Seminar on "Higher Education in India: Critical issues and challenges" Organised by IQAC Doranda College, Ranchi, Jharkhand.
6. International E- Conference on- Recent Advances in Physics: A Promise to Society. 24-25 June 2020. Department of Physics, G. P. G. College, Bazpur, Uttarakhand, India.
7. International E- Conference on- Emerging Advances in Mathematical and Physical Sciences. 28-30 June 2020. Department of Physics, Hindu College, Moradabad. U.P. India.

Orientation/Refresher Courses/Faculty Development Program:

- 1.** CXXXIII- Orientation Programme from UGC Academic Staff College, Aligarh Muslim University, Aligarh (2014).
- 2.** Refresher Course in Physical Science from UGC- HRDC, Ranchi University, Ranchi (2016).
- 3.** Online two-week refresher course in physics. teaching learning Centre, Ramanujan college, university of Delhi. 2022-04-10 to 2022-04-24. Ministry of education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
- 4.** Online two-week interdisciplinary refresher course in advanced research methodology. teaching learning Centre, Ramanujan college, university of Delhi. 2022-05-22 to 2022-06-05 ministry of education, pandit Madan Mohan Malaviya National Mission on Teachers and Teaching.
- 5.** Online Faculty Development Program on Recent Advancements in Science and Technology from March 6-10, 2023 by the Department of Science, Alliance University, Bengaluru.
- 6.** Faculty Mentor Development Programme from EDII, Ahmedabad from July 21-26, 2024.

Teaching Experience-

I have a teaching experience of 24 years for graduate and post-graduate classes.

Current Research Interest-

My Current Research interest is in the field of Quantum Gravity, Quantum Cosmology and nature of Space and time at fundamental level of existing Quantum Gravity Theory.

Extra-Curricular Activities-

I have actively participated in different cultural activities, games, student union elections and other extra-curricular activities and have been a member of college Alumni Association.