

CURRICULUM VITAE

Name: Dr. Rajendra Pratap

Contact Information:

Designation: Assistant Professor

Institution: University Department of Physics,
Binod Bihari Mahto Koyalanchal University
(BBMKU), Dhanbad

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Date of Birth: July 3, 1960

Date of Joining: October 3, 1985

Educational Qualifications

- **B.Sc. (Physics Hons.):** 1982
 - **M.Sc. (Physics):** 1984
(*Specialization: Nuclear & Particle Physics*)
 - **Ph.D.:** 2016
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Administrative Roles

1. **Controller of Examinations**
R.S. More College, Govindpur
November 9, 2015 – February 14, 2019
 2. **Professor In-Charge**
R.S. More College, Govindpur
February 14, 2019 – December 31, 2023
 3. **Head of the University Department of Physics**
Binod Bihari Mahto Koyalanchal University (BBMKU), Dhanbad
January 1, 2024 – Present
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Assignments and Committees

1. Professor In-Charge
 2. Coordinator, IQAC
 3. Coordinator, Student Placement Cell
 4. Nodal Officer, Admission Cell
 5. Member, Green Campus Committee
 6. Member, NAAC Steering Committee
 7. Convener, Free Ship Committee
 8. Member, Digitalization & Webinar Committee
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Research Publications

1. *Realization of higher-order antibunching in harmonic generation.* **National Seminar on Nanomaterials and Their Applications (NANOMAT 2011), ISM Dhanbad, Feb 10, 2011, p. 41.**
 2. *Higher-order squeezing and sub-Poissonian photon statistics in fourth harmonic generation.* **National Seminar on New Sources of Energy Using Nanotechnology, Jubilee College, Bhurkunda, Sept 8, 2011, p. 13.**
 3. *Squeezing and sub-Poissonian effects of light in third harmonic generation.* **Acta Physica Polonica A (Poland), 2014, Vol. 125, No. 6, pp. 1126–1131.**
 4. *Effect on squeezing and sub-Poissonian effects of light in fourth harmonic generation.* **Optik – International Journal for Light and Electron Optics (Elsevier, Netherlands), 2014, Vol. 125, Issue 3, pp. 1065–1070.**
 5. *Non-classical effects of light in fifth harmonic generation.* **ISRN Optics (USA), 2014, pp. 1–9.**
 6. *Sum squeezing of the field amplitude in four-wave mixing process.* **National Seminar on Recent Advances in Physical Science (RAPS 2018), P.K.R.M. College, Dhanbad, Jan 19–20, 2018, p. 51.**
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Seminars, Conferences, and Workshops

Total Attended: 07

Papers Presented: 03

1. New Sources of Energy Using Nanotechnology, **Jubilee College, Bhurkunda**, September 8–10, 2011.
2. Nanomaterial and Their Application, **ISM Dhanbad**, February 10–11, 2011.
3. Research Methodology and Data Analysis, **ISM Dhanbad**, January 21–25, 2013.
4. Prospect of Cultivation and Marketing of Medicinal Plants in Jharkhand, **Chas College, Chas**, April 11–12, 2015.
5. Harmony with Nature in Context of Resource Conservation and Climate Change, **VBU Hazaribagh**, October 22–24, 2016.
6. Recent Advances in Physical Science (RAPS 2018), **P.K.R.M. College, Dhanbad**, January 19–20, 2018.
7. Promotion of Research in Science and Technology, **DHTE Jharkhand**, February 1–2, 2024.

National and International Webinars/Symposia

Total Attended: 06 (International: 02, National: 04)

1. *International Webinar on Nuclear Physics and Applications in Medicine*, F.M. University, Balasore, July 30 – August 1, 2020.
2. *International Symposium on Material Science and Innovation for a Sustainable Society*, Mizoram University, August 26–27, 2020.
3. *Mathematical Models on COVID-19*, Achharam Memorial College, June 9, 2020.
4. *Indian Association of Physics Teachers (IAPT)*, August 8–9, 2020.

5. *Fundamentals of Microprocessors*, Government PG College, MHOW, August 24, 2020.
 6. *Role of Symmetries in Physics and Quasi-periodic Order*, Ashutosh College, August 24 and 28, 2020.
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Professional Development Programmes

1. Orientation Course, **IIT Kharagpur**, October 3–12, 1996.
 2. AIDS Awareness Educational Programme, **VBU**, January 31 – February 3, 1997.
 3. NSS Central Camp (Resource Person), **New Delhi**, August 2001.
 4. Refresher Course, **Dept. of Youth Affairs & Sports**, March 1–5, 2003.
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UGC-Sponsored Programmes

1. Refresher Course, **ASC, B.R. Ambedkar Bihar University, Muzaffarpur**.
2. Orientation Course, **ASC, Ranchi University**, Nov 25–Dec 22, 2010.
3. Refresher Course, **ASC, Ranchi University**, March 4–24, 2013.
4. Refresher Course on Nano-Biotechnology, **IIT (ISM) Dhanbad**, May 25–June 14, 2017.