

Curriculum Vitae

Dr. Ratan Lal Jaiswal

Assistant Professor, Department of Physics
Government Degree College Dhadha Bujurg (Hata)
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Date of Joining: **12/12/2013**



Academic Qualification:

- **2022: Ph.D.** in Physics on the topic “**Studies on Thermophysical Properties of Metallic Nanoparticles**” from M.M.M. University of Technology Gorakhpur (UP) India.
- **2005: CSIR-NET** in Physical Sciences organized by UGC-CSIR, New Delhi.
- **2004: M.Sc. (Physics)** from DDU Gorakhpur University, Gorakhpur (UP) India.
- **2002: B.Sc. (Physics, Mathematics & Chemistry)** from St. Andrews PG College Gorakhpur (UP) affiliated to DDU Gorakhpur University, Gorakhpur (UP) India.
- **1999: Intermediate (Mathematics group)** from UP Board Allahabad, Uttar Pradesh.
- **1997: High School (Science)** from UP Board Allahabad, Uttar Pradesh.

Research Publications:

1. *Electrical conductivity of semiconducting nanoparticles*, Sachin, Brijesh Kumar Pandey, **Ratan Lal Jaiswal**, Physica B: 646: 414279 (**2022**).
2. *Modelling for the variation of thermal conductivity of metallic nanoparticles*, **Ratan Lal Jaiswal**, Brijesh Kumar Pandey, Physica B: 627: 413594 (**2022**).
3. *Modeling for the Study of Thermophysical Properties of Metallic Nanoparticles*, **Ratan Lal Jaiswal**, Brijesh Kumar Pandey, SN Applied Sciences 3 (4), 1-9 (**2021**).
4. *Thermo-physical Behavior of Nanomaterials with the Change in Size and Shape*, **Ratan Lal Jaiswal**, Brijesh Kumar Pandey, Dishani Mishra, Huda Fatma, International Journal of Thermodynamics 24 (1), 1-7 (**2021**).
5. *Thermomagnetic Properties of Metal and Metal-oxide Nanoparticles*, **Ratan Lal Jaiswal** and Brijesh Kumar Pandey, Advanced Materials Letters 12 (7), 21071647 (**2021**).
6. *Modelling for the Study of Thermoelastic Properties of Nanoparticles*, Shridhar Pathak, Brijesh Kumar Pandey, **Ratan Lal Jaiswal**, Advanced Materials Letters 12 (2), Article id-21021605, Pages 1-6 (**2021**)

7. *Theoretical Prediction for Band Gap of Semiconducting Nanoparticles*, Sachin, Brijesh Kumar Pandey, and **Ratan Lal Jaiswal**, *Advanced Materials Letters* 2021, 12(10), 21101669 (2021).
8. *Modelling for the Prediction of Melting Temperature for Metallic Nanoparticles*, Sachin, Brijesh Kumar Pandey, and **Ratan Lal Jaiswal**, *Advanced Science, Engineering and Medicine* 12 (1), 27-30 (2020).
9. *Shape dependence of elastic moduli of metallic nanoparticles*, Brijesh Kumar Pandey, **Ratan Lal Jaiswal**, Sachin, *AIP Conference Proceedings* 2142 , 170006 (2019).
10. *Temperature dependence of elastic properties of potassium chloride (KCl)*, **Ratan Lal Jaiswal**, Brijesh Kumar Pandey, Sachin, *AIP Conference Proceedings* 2142, 140012 (2019).
11. *Study of Thermodynamic Properties of Nanomaterials for different Size and Shape*, **Ratan Lal Jaiswal**, *JECET, Sec. C; Vol.7. No.1*, 016-021, (2018).
12. *Prediction of elastic moduli of metallic nanoparticles*, Brijesh Kumar Pandey, **Ratan Lal Jaiswal**, *International Journal of Materials Science*, 12(1), 85-87, (2017).
13. *Prediction for the Debye Temperature of Metallic Nanoparticles*, Brijesh Kumar Pandey, **Ratan Lal Jaiswal**, *International Journal of Nanotechnology and Applications* 11(1), 81-90, (2017).

Book Chapter:

- Use of Nanotechnology in Food Industry, Anamika Publisher and Distributers Pvt. Ltd, 4697/3, 21A , Ansari Road Daryaganj, New Delhi, ISBN: 9788179759592.

List of Publications/ Paper presented/ FDP/ Conference attended:

- Research paper published in SCI/ESCI/SCIMago/Scopus: **8**
- Research paper published in conference proceeding: **5**
- Research paper presented in seminar/ conference: **11**
- FDP/ Short term course: **5**

Teaching Experience: UG (B.Sc.): **09** Years, PG (M.Sc.): **04** Years.

Administrative and other responsibilities:

- ✓ Working as **In-charge**, Department of Physics.
- ✓ Working as **NAAC** coordinator in the college.
- ✓ Working as In-charge of **e-learning park and e-library**.
- ✓ Working as member in **Admission** committee for science faculty.
- ✓ Working as member in **Scholarship** committee.
- ✓ Worked as **Examination** In-charge (For academic session 2021-22)

- ✓ Worked as Assistant Centre Superintendent (**ACS**) in college for university examination (For academic session 2014-15, 2015-16, 2016-17, and 2017-18).
- ✓ Worked as member in **IQAC** for academic session 2014-15, 2015-16, 2016-17, 2017-18 and 2018-19.
- ✓ Worked as member in **Proctorial** committee in college.
- ✓ Worked as **Rovers** In-charge in college (For academic session 2019-20 and 2020-21).



(Dr. Ratan Lal Jaiswal)