

# DR. RAMANSHU PRABHAKAR SINGH

## Assistant Professor

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## EDUCATION

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<b>PhD</b>	Veer Bahadur Singh Purvanchal University, Physics Thesis title: “ <i>Ultrasonic and Thermophysical Properties of Advanced Materials</i> ”, Supervisor: Dr. Giridhar Mishra	2022
<b>MSc</b>	University of Allahabad, Physics, CGPA: 8.55 Specialization: Nuclear and Particle Physics	2018
<b>BSc</b>	University of Allahabad, Physics, Chemistry and Mathematics, Percentage: 62%	2016

## HONORS, AWARDS AND GRANTS

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<b>CSIR-Junior Research Fellowship</b> Awarded for Ph. D. degree	2019
<b>SERB International Travel Support</b> To attend <b>X-Vision 2023 A Joint IAU I-HOW and COSPAR Capacity Building Workshop in X-ray Astronomy</b> , North-West University, Potchefstroom, South Africa during Feb 06-17, 2023	2023

## PUBLICATIONS

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### *Journal Publications*

1. **Ramanshu P. Singh**, S. Yadav, Giridhar Mishra, Devraj Singh, “Pressure dependent ultrasonic properties of hcp hafnium metal”, *Zeitschrift für Naturforschung A*, vol.76, No.6, 2021, pp. 549-557.
2. S. Yadav, **Ramanshu P. Singh**, Giridhar Mishra, Devraj Singh, “Mechanical and thermophysical properties of 4d-transition mononitrides” *Zeitschrift für Naturforschung A*, vol. 77, no. 7, 2022, pp. 701-713.

3. **Ramanshu P. Singh**, Shakti Yadav, Devraj Singh, Giridhar Mishra, “Theoretical approach to investigate temperature dependent Ultrasonic and Thermophysical Properties of Ti-Zr-Hf ternary alloy, *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, vol 10, no. 11, 2022, pp 583-588.
4. **Ramanshu P. Singh**, Shakti Yadav, Devraj Singh, Giridhar Mishra, “Theoretical investigation of temperature dependent elastic, thermophysical and ultrasonic properties of Sc-Ti-Zr-Hf quaternary alloy” *Applied Innovative Research (AIR)* (accepted for publication; Manuscript ID: AIR316)
5. Shakti Yadav, **Ramanshu P. Singh**, Devraj Singh, Giridhar Mishra, “Investigation of temperature dependent mechanical, thermophysical and ultrasonic properties of ScZrHf ternary alloy” *Journal of Pure and Applied Ultrasonics* (Accepted for publication; Manuscript ID: JPAU-D-22-10)

### **Conference Papers**

1. **Ramanshu P. Singh**, Giridhar Mishra, “Pressure dependent Ultrasonic parameters of hcp structured Hafnium metal,” *International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019)*, organized by V. B. S. Purvanchal University, Jaunpur; Nov. 16-18, 2019, PAPERID: O-121.
2. **Ramanshu P. Singh**, Shakti Yadav, Devraj Singh, Giridhar Mishra, “Ultrasonic and thermophysical properties of binary and ternary alloys of transition metals Ti, Zr and Hf,” *2nd International Conference on Recent Advances in Materials Science and Nanotechnology*, organized by G. S. Tompe Arts, Commerce & Science College, Chandur Bazar, Amravati. May 12-14, 2022, PAPERID: O-12.

### **PRESENTATIONS AND INVITED LECTURES**

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**Invited Lecture**, “Investigation of Ultrasonic and Thermophysical Properties of HCP Metals,” in *International Conference on Ultrasonics and Material Science for Advanced Technology (ICUMSAT-2022)* organized by Telangana University, Nizamabad during 01-03 August, 2022.

### **PROFESSIONAL TRAINING**

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#### **Refresher Course on Astronomy and Astrophysics 2021**

Inter-University Centre for Astronomy and Astrophysics, Pune, May 10-June 11, 2021

#### **X-Vision 2023 X-ray Vision of the Energetic Universe: A Joint IAU I-HOW and COSPAR Capacity Building Workshop in X-ray Astronomy**

North-West University, Potchefstroom, South Africa, February 06-17, 2023

### **PROFESSIONAL POSITIONS AND AFFILIATIONS**

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Assistant Professor, Department of Physics, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research,  
Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh 222001 India.  
Nov. 2019-Present.

CSIR-Junior Research Fellow (Ph. D. Scholar), Department of Physics, Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur Singh Purvanchal University, Jaunpur, Uttar Pradesh 222001 India.  
Jan. 2019-Nov. 2019.

#### LANGUAGES

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**Hindi:** Native Language

**English:** Intermediate Speaker, Advanced Listener, Reader and Writer

#### COMPUTER SKILLS

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**Programming:** C++, Python

**Applications:** Microsoft Office, LibreOffice, Origin

**Platforms:** Ubuntu, Windows.

#### OTHER

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**Hobby:** Photography

#### REFERENCES

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**Dr. Giridhar Mishra**, Associate Professor

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Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research,  
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