

Curriculum Vitae

DR. INDIRA

❖ OVERVIEW

Presently I am teaching in Dr. Pratap Bisht Govt. Degree College, Bhikiyasen (Almora) Uttarakhand. I did my Ph. D from **University of Delhi**, Delhi India in Material science under the supervision of **Prof. Amita Chandra** in 2021. I am having 3 years of teaching experience. I have taught at Doon University for 3 years from August 2022 to June 2025. Under my supervision 4 M.Sc. students have successfully completed their dissertation work on water splitting and photo-catalytic applications. Apart from this 6 B.Sc. students have also completed their project work under me.

❖ EDUCATIONAL QUALIFICATION

- ✓ **DOCTOR OF PHILOSOPHY (PHYSICS) - September 2021**
Thesis title: “**Pattern formation in polymers**”
Thesis supervisor: **Prof. Amita Chandra**
Department of Physics and Astrophysics, University of Delhi, Delhi, INDIA
- ✓ **MASTER OF SCIENCE (PHYSICS) – 2013 (80.25%)**
Pt. Lalit Mohan Sharma Government PG College, Rishikesh
- ✓ **BACHELOR OF SCIENCE (PHYSICS, CHEMISTRY & MATHEMATICS) – 2011 (61.44%)**
Pt. Lalit Mohan Sharma Government PG College, Rishikesh
- ✓ **SENIOR SECONDARY (PHYSICS, CHEMISTRY, MATHEMATICS, ENGLISH & HINDI) – 2008 (80.8%)**
Government Inter college Raiwala, Dehradun
- ✓ **HIGHER SECONDARY – 2006 (73.43%)**
Government Inter College Raiwala, Dehradun

❖ PUBLICATIONS

- ✓ **Indira Pandey** and Amita Chandra: Redox-initiated diffusion-limited aggregation in biopolymer. *Physica Scripta* 94, **2019**, 1-11. **IF 2.487**
- ✓ **Indira Pandey** and Amita Chandra: Factors affecting fractal patterns obtained by electroless deposition in polymer. *Materials Research Express* 6, **2019**, 105307 (1-14). **IF 1.62**
- ✓ **Indira Pandey** and Amita Chandra: Temperature induced changes in polymer based fractal patterns due to metal aggregation. *Applied Physics A* 127, **2021**, 1-13. **IF 2.548**

- ✓ **Indira Pandey** and Amita Chandra: Effect of thermal degradation of polymer on redox initiated fractal geometries. Chemical Physics Impact 3, **2021**, 1-12. Open Access

❖ PRESENTATIONS

- ✓ **2019** - Poster presentation: “**13th National Conference on Solid State Ionics (NCSSI-13)**” held on December 16-18, IIT Roorkee, Roorkee, Uttarakand, India.
- ✓ **2019** - Oral presentation: “**7th International Conference on Electroactive Polymers (ICEP-2019)**” held on February 3-8, Udaipur, Rajasthan.
- ✓ **2017** - Poster presentation: “**6th International Conference on Functional Electroceramics and Polymers (ICEP-2017)**” held on February 20-22, Department of Physics, Indian Institute of Technology Kharagpur, West Bengal.
- ✓ **2017** - Poster presentation: “**National Seminar on Biophysics (BIOPHYSIKA -2017)**” held on March 16, 2017, Centre for Interdisciplinary Research in Basic Sciences Jamia Millia Islamia, New Delhi-110025.
- ✓ **2016** - Oral presentation: “**International Conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity (ICTAM-AMF10)**” held on November 7-11 2016, Department of Physics & Astrophysics, University of Delhi.

❖ ACHIEVEMENTS AND FELLOWSHIP

- ✓ Senior Research Fellowship (**INSPIRE**) for Ph.D. (2017-2020)
- ✓ Junior Research Fellowship (**INSPIRE**) for Ph.D. (2015-2017)
- ✓ INSPIRE Scholarship for Higher Education (**SHE**) for M.SC. (2011-2013)
- ✓ INSPIRE Scholarship for Higher Education (**SHE**) for B. Sc (2008-2011)

❖ TECHNICAL AND EXPERIMENTAL SKILLS

- ✓ Solution cast method for synthesis of polymer composite.
- ✓ Characterization of samples using X-Ray Diffraction, scanning electron microscopy, Fourier transform infrared spectroscopy, Raman spectroscopy, Viscosity, fractal dimension.
- ✓ MS word, Microsoft Excel, Microsoft Power point, Photoshop, data analysis by Origin.

❖ REFERENCES

- ✓ **Prof. A. Chandra** - Department of Physics and Astrophysics, University of Delhi, Delhi-110 007, India. e-mail: achandra@physics.du.ac.in, amitach1@yahoo.com
- ✓ **Prof. S. A. Hashmi**- Department of Physics and Astrophysics, University of Delhi, Delhi-110 007, India. e-mail: sahashmi@physics.du.ac.in, hashmisa2002@yahoo.co.in

✓ **Dr. Vijendra Lingwal** - Department of Physics, Pt. L.M.S. Government PG College, Rishikesh, Dehradun.

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❖ **PERSONAL INFORMATION**

Nationality : India
Date of Birth : June 10, 1990
Marital status : Married
Gender : Female
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Date: 31-07-2025

Indira Pandey