




DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

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|---|--|-------------------------|------------------|----------------------------|--|---|
| Title | Dr. | First Name | Brijmohan | Last Name | |  |
| Designation | Assistant Professor | | | | | |
| Address | Physics Department, Deshbandhu College, New Delhi | | | | | |
| Residence | B-147, Upper Ground Floor, Subhash Park Extension , Near Apni Bekri, Uttam Nagar, New Delhi-110059 | | | | | |
| Mobile | 7007845426, 9455150650 | | | | | |
| Email | brijmohan@db.du.ac.in , brijfizics@gmail.com | | | | | |
| Web-Page | Link To RG: https://www.researchgate.net/profile/Brijmohan_Prajapati3 | | | | | |
| Educational Qualifications | | | | | | |
| Degree | Institution | | | Year | | |
| Ph.D. | Banaras Hindu University | | | 2019 | | |
| PG | MGKVP University | | | 2011 | | |
| UG | VBS Purvanchal University | | | 2009 | | |
| ADCA | SKYNET Institute | | | 2012 | | |
| Career Profile | | | | | | |
| Assistant Professor Deshbandhu College, University of Delhi 28 March, 2019 – Present | | | | | | |
| Areas of Interest/Specialization | | | | | | |
| Expertise is Experimental Condensed Matter Physics. The core study involves the mapping of electrical, optical and magnetic properties of Diluted Magnetic Semiconductors and Double Perovskites materials. | | | | | | |
| Subjects Taught | | | | | | |
| Classical Dynamics | | Electricity & Magnetism | | Mechanics | | Scilab |
| SEC (Electrical Circuits and Network Skills) | | Wave and Optics | | Elements of Modern Physics | | |
| Research Guidance | | | | | | |
| Supervision of Six M.Sc. dissertation students in Material Research Lab, Department of Physics, BHU, Varanasi during PhD | | | | | | |
| Publications Profile | | | | | | |

1. **Brijmohan Prajapati**, Shiv Kumar, Manish Kumar, S. Chatterjee and Anup K. Ghosh. "Investigation of the physical properties of Fe: TiO₂-diluted magnetic semiconductor nanoparticles" *Journal of Materials Chemistry C*. **5(17)**, 4257-67 (2017). ISSN 2050-7534
2. **Brijmohan Prajapati**, S. Roy, S. Sharma, A. G. Joshi, S. Chatterjee and A. K. Ghosh, *physica status solidi (b)* **256 (5)**, 1800262 (2019). ISSN: 0370-1972
3. S. Roy, **Brijmohan Prajapati**, A. Singh, A. G. Joshi, S. Chatterjee and A. K. Ghosh, *Journal of applied physics* **126 (15)**, 154303 (2019). ISSN: 1089-7550.
4. A. Paul, P. Raha, A. N. Dubey and **Brijmohan Prajapati**, *International Journal of Agriculture, Environment and Biotechnology* **12 (2)**, 121-127 (2019). ISSN:0974-1712
5. M. Kumar, **Brijmohan Prajapati**, A. Singh, S. Kumar, A. Kumar and S. Mittal, *Chemical Physics* **532**, 110688 (2020). ISSN: 0301-0104.
6. M. Kumar, **Brijmohan Prajapati**, A. Singh, *Journal of Materials Science: Materials in Electronics* (2020). <https://doi.org/10.1007/s10854-020-03350-6>. ISSN: 0957- 4522.
7. Manish Kumar, S. Shankar, **Brijmohan Prajapati**, Shiv Kumar, O.P. Thakur, Anup K. Ghosh. "Impedance spectroscopy and conductivity analysis of multiferroic BFO–BT solid solutions" *Physics Letters A*. **381(4)**, 379-86 (2017). ISSN: 0375-9601
8. S Shankar, M Kumar, **Brijmohan Prajapati**, S Kumar, O. P. Thakur, Anup K. Ghosh, "Signature of multiferroicity and impedance analysis of Co_{1-x}Zn_xFe_{2-x}LaxO₄ nanoparticles" *Journal of Materials Science: Materials in Electronics*. **27(12)**, 13259-65 (2016). ISSN: 0957- 4522.
9. Subhash Sharma, J.M. Siqueiros, Gunjan Srinet, Shiv Kumar, **Brijmohan Prajapati** and R.K. Dwivedi "Structural, electrical, optical and dielectric properties of sol-gel derived (1 - x) BiFeO₃ – (x)Pb(Zr_{0.52}Ti_{0.48})O₃ novel multiferroics materials" *Journal of Alloys and Compounds*. **732**, 666-73 (2018). ISSN: 0925-8388
10. G. Srinet, S. Sharma, **Brijmohan Prajapati**, J. Siqueiros. Investigations on the physical properties of Mn-modified ZnO samples prepared by sol–gel route. *Journal of Materials Science: Materials in Electronics*. **29 (12)**, 9930-41 (2018). ISSN: 0957- 4522.

Conference Organization/ Presentations/Schools

1. Winter school on "**Practical crystallography and structure solution**" dated March 05-11, 2014 at Banaras Hindu University.
2. A workshop on "**Advanced Nanomaterials: Characterization and Applications**" dated November 02-08, 2015 at Dept. of Physics, Banaras Hindu University, Varanasi.
3. Conference on "**New Trends in Research**" dated December 20, 2012 held at Banaras Hindu University.
4. Conference on "**Recent Trends in Research**" dated February 07, 2015 held at Dept. of Physics, Banaras Hindu University, Varanasi.
5. Conference on "**Recent Trends in Research**" dated February 20, 2016 held at Dept. of Physics, Banaras Hindu University, Varanasi.
6. International workshop and Pre-conference/conference of **EMSI 2016**.
7. International conference on functional materials (**ICFM-2016**)
8. Indo-US international conference on nanotechnology: Science and Application in advance materials and beyond (**NSAAMB-2016**).
9. International conference on Advances in Biological System and Materials Science in Nanoworld (**ABSMSNW-2017**).

10. International conference on “*Human Rights National and International Issues and Challenges*” 22-23 Feb, 2020 (Participated).
11. International conference on “*Natural Products and Human Health*” 27-29 Feb, 2020 (Organizing Committee member).

Awards and Distinctions

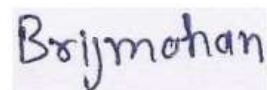
Worked as **Organizing/Resource Person** in the “**INSPIRE Internship Programme-2019**” organised by Deshbandhu College, held from 17-21, Dec., 2019.

Appointed as **EVALUATOR** for the State Level Camp (Level-II), Delhi of Vidyarthi Vigyan Manthan –India’s largest science talent search for New India using Digital Device (VVM) 2019-20.

UGC Research Fellowship (Sept. 2012-Sept. 2016)

CSIR NET, 2014, 2017

B.H.U. RET, 2012, **Rank: 02**



Signature of Faculty
Member