Dr. Shilpa Narendrabhai Bhavsar

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Tarsali,
Vadodara- 390009
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Summary:

A credible, effective and efficient lecturer with proven expertise in conveying knowledge to learning individuals; Responsible for delivering lectures, conducting laboratories, grading papers and exams; Responsible for delivering quality instructions and lectures ensuring student satisfaction; Have a good and strong communications and interaction skills; Have a keen ability in conducting research.

Educational Qualification:

- Ph.D. in Physics from The M. S. University of Baroda, Vadodara (M.S.U), INDIA, **Aug-2021**.
  "**Modification of Metal Oxide doped Polymer Nanocomposite using Ion Beam Irradiation**"

- **Master of Science in Physics,** The M. S. University of Baroda**, 2014**
- First class, 78.9%

- **Bachelor of Science in Physics,** The M. S. University of Baroda**, 2011**
- Second Class, 52 %

- **Intermediate, State (Gujarat) Board, March 2006**
- Second Class, 65.66%

- **Matriculation, State (Gujarat) Board, March 2004**
- Distinction, 72.14%

Computer Literacy:

- Aptness in dealing with Microsoft office, Fortran, C++, LATEX

Personal Details:

- Date of Birth: 07th March'1989
- Father's Name- Narendrabhai Bhavsar
- Languages known- English, Hindi & Gujarati

Achievements :

- 61th ACCELERATOR USER WORKSHOP - Dec. 16-18, 2016 at IUAC New Delhi
  Oral Presentation- Proposal Accepted.
  "Modification of metal oxide doped polymer nanocomposites using ion beam irradiation"
  Shilpa Bhavsar, N. L. Singh

- Achieved First rank in M.Sc. in The Maharaja Sayajirao University of Baroda, Vadodara (Guj.) with Gold Medals and four scholarship.

- Awarded first prize in Minaxi Lalit Science Award -2014.

- In IELTS exam, I got 6.5 bands out of 9.

Experiences :

- I worked as Temporary Teaching Assistant at Dept. Physics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat (**June 2017-June 2021**).
- I worked as a project fellow funded by IUAC, New Delhi, entitled "Radiation induced effects on polymer nanocomposites for antibacterial properties" under the guidance of Prof. N. L. Singh, at The Maharaja Sayajirao University of Baroda, Vadodara (Guj.) during Dec-2014 to Dec-2015.
- I worked as Lecturer at Parul Institute during July-2014 to October 2014.

SEMINARS/ PRESENTATIONS/ WORKSHOPS/ EXPERIMENT

- Indo-Czech Cooperation Workshop on Monte Carlo Simulation and Applications, December 1-6, 2014, organized by Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat (Participated)

- National Conference on Recent Trends in Science of Materials, December 28-30, 2015, organized by Faculty of Science, , The M. S. University of Baroda, Vadodara, Gujarat (Participated)

- DST- SERB School on Ion Interaction with Matter, organized by Saurashtra University, Rajkot, Gujarat on 2nd to 22th March, 2015

- International Conference on Functional Oxides and Nanomaterials (ICFONM – 16) organized by Saurashtra University, Rajkot, Gujarat on 11th to 13th November, 2016. (Poster Presentation)

- International Conference on High Energy Radiations and Applications (ICHERA) organized by Physics Department, Faculty of Science, The M. S. University of Baroda, Vadodara, Gujarat on 10-13 Oct, 2017. (Poster Presentation)

- National Conference on Recent Trends in Materials Science , March 24-25, 2018, organized by Faculty of Science, , The M. S. University of Baroda, Vadodara, Gujarat (Poster Presentation)

- One Day Seminar on Analytical Instrumental Techniques, Organised by The M. S. University of Baroda, April 9, 2019 (Attended)

- 3rd International Conference on Condensed Matter & Applied Physics (ICC-2019) held at Govt. Engineering College, Bikaner, Rajasthan, October 14-15, 2019. (Poster Presentation)

- 6th International Conference on Luminescence and Applications [ICLA-2019] January 7-10, 2019 Organized by School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur-492010, Chhattisgarh, INDIA & Luminescence Society of India (LSI) (Poster Presentation)

- National Conference on Luminescence and its Applications (NCLA-2020) , February 10-12, 2020, Department of Physics, National Institute of Technology (NIT) Warangal, Warangal-506004, Telangana, Warangal in association with Luminescence Society of India (Poster Presentation)

- Participated in the Low Energy Ion Beam Irradiation Experiment of Dr. Anjum Qureshi during 23rd to 26th March-2015.

- Participated in the Low Energy Ion Beam Irradiation Experiment of Ms. Asha during 15th -17th July-2017.

- Participated in the High Energy Ion Beam Irradiation Experiment during 03rd to 05th May-2018.

- Participated in the High Energy Ion Beam Irradiation Experiment of Ms. Asha during 09-10 July-2019.

Publication

1. Influence of Gamma and 90 MeV carbon ions on Structural, Thermal and Electrical properties of PVA/H_3PO_4/SiO_2 nanocomposite polymer electrolytes
   Shilpa Bhavsar, Gnansagar B. Patel, N. L. Singh, B. Singh, F. Singh
   Radiation physics and chemistry, volume 192, page 109916 (2022)

2. Proton Beam Induced Modification of Luminescence Properties of Polystyrene/Al_2O_3 Polymer Nanocomposites
   Shilpa Bhavsar, N. L. Singh, S. V. Suryanarayana, K. V. R. Murthy
   Journal of Fluorescence volume 29, pages 1007–1012 (2019).
   doi: https://doi.org/10.1007/s10895-019-02414-z;

3. Effect of γ-irradiation on thermal and thermoluminescence properties of polystyrene/europium (III) oxide composite film
   Shilpa Bhavsar, N.L. Singh, Birendra Singh
   Luminescence. 35 (2019) 412-417.
   doi:10.1002/bio.3742

4. Effect of γ-irradiation on optical properties of Eu_2O_3-doped polystyrene polymer films
   Shilpa Bhavsar, Gnansagar B. Patel, N.L. Singh
   Luminescence. 33 (2018) 1243–1248.
   doi:10.1002/bio.3541.

5. Investigation of optical properties of aluminium oxide doped polystyrene polymer nanocomposite films
   Shilpa Bhavsar, Gnansagar B. Patel, N.L. Singh
   Phys. B Condens. Matter. 533 (2018) 12–16.
   doi:10.1016/j.physb.2017.12.055.

6. SHI induced modification in structural, optical, dielectric and thermal properties of poly ethylene oxide films
   Gnansagar B. Patel, **Shilpa Bhavsar**, N.L. Singh, F. Singh, P.K. Kulriya,
   Nucl. Instruments Methods Phys. Res. Sect. B 379 (2016) 156–161.
   doi:10.1016/j.nimb.2016.04.018

Conference Proceedings:

1. Influence of gamma radiation on optical properties of Al_2O_3-doped polystyrene polymer films
   Shilpa Bhavsar, N.L. Singh
   AIP Conference Proceedings 2220 (2020) 080056.
   doi: http://doi.org?10.1065/5.0001829

References:

1. Prof. N. L. Singh,
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Vadodara-390002.
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2. Prof. M. N. Srinivas,
(Professor)
Department of Physics,
Faculty of Science,
The M. S. University of Baroda,
Vadodara-390002.
E-mail: mn.srinivasphy@msubaroda.ac.in
Mobile No. 9427034654

Declaration

I hereby certify and confirm that all the above information and details furnished by me in the resume are true. I agree to provide documents and proofs, wherever relevant, in support of the above at the time of appointment.

shilpa

Place: Vadodara (**Shilpa Bhavsar**)