

Name: Dr. Rajni Bala
Assistant Professor
Department of Physics
M. D. University, Rohtak
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A) Educational Qualification

Degree	Year of Passing	University/Institute
Ph. D.	2015	Guru Jambheshwar University of Science & Technology, Hisar
PG	2008	Guru Jambheshwar University of Science & Technology, Hisar
UG	2006	M. D. University, Rohtak

B) Career Profile

Designation	Institute Served	University/Institute
Assistant Professor	M. D. University, Rohtak	21-09-2010 to till date

C) Award and Distinctions: Qualified **CSIR-JRF** in Dec 2007.

D) Memberships: Life Member of Materials Research Society of India.

E) List of Research Publications

- [1] Effect of Bi_2O_3 on nonlinear optical properties of $\text{ZnO}\cdot\text{Bi}_2\text{O}_3\cdot\text{SiO}_2$ glasses
Rajni Bala, Ashish Agarwal, Sujata Sanghi, Navneet Singh
Optical Materials 36 (2013) 352-356. [I.F.-2.238]
- [2] Influence of SiO_2 on the structure and optical properties of lithium bismuth silicate glasses
Neetu Ahlawat, Sujata Sanghi, Ashish Agarwal, **Rajni Bala**
Journal of Molecular Structure 963 (2010) 82-86. [I.F.-1.753]
- [3] Influence of SiO_2 on the structural and dielectric properties of $\text{ZnO}\cdot\text{Bi}_2\text{O}_3\cdot\text{SiO}_2$ glasses
Rajni Bala, Ashish Agarwal, Sujata Sanghi, Satish Khasa
Journal of Integrated Science & Technology 3 (2015) 6-13.

Papers published in Conferences as full proceedings

- [1] Structure and physical properties of $\text{ZnO}\cdot\text{Bi}_2\text{O}_3\cdot\text{SiO}_2$ glasses
Rajni Bala, Ashish Agarwal, Sujata Sanghi, Neetu Ahlawat

International Conference on Electroceramics (ICE-2009), University of Delhi, New Delhi, Dec. 13-17, 2009.

[2] Structure and physical properties of CdO·Bi₂O₃·SiO₂ glasses

Rajni Bala, Ashish Agarwal, Sujata Sanghi, Neetu Ahlawat

54th DAE-Solid State Physics Symposium, M. S. University of Baroda, Vadodra, Dec. 14-18, 2009.

[3] Structure of PbO-Bi₂O₃-SiO₂ Glasses Evidenced by FTIR Spectroscopy

Rajni Bala, Ashish Agarwal, Sujata Sanghi

DAE-BRNS National Laser Symposium (NLS-22), MIT, Manipal University, Manipal, Jan. 08-11, 2014.

[4] Optical limiting behavior of CdO·Bi₂O₃·SiO₂ Glasses

Rajni Bala, Ashish Agarwal, Sujata Sanghi

International Conference on Optics and Optoelectronics (ICOL-2014), IRDE, Dehradun, March 05-08, 2014.

[5] Nonlinear optical characterization and optical limiting studies in PbO·Bi₂O₃·Ga₂O₃ glasses

Rajni Bala, Ashish Agarwal, Sujata Sanghi

National laser Symposium (NLS-23), Sri Venkateswara University, Tirupati, Andhra Pradesh, Dec. 03-06, 2014.

Papers presented in Conferences/Symposia

[1] Optical Characterization of Zinc Bismuth Silicate glasses

Rajni Bala, Ashish Agarwal and Sujata Sanghi

National Conference on Advances in Chemical Sciences (ACS-2013), Dept. of Chemistry, M. D. University, Rohtak, March 1-2, 2013

[2] Z-scan studies and optical limiting behaviour of cadmium bismuth silicate glasses

Rajni Bala, Ashish Agarwal, Sujata Sanghi

National Seminar on Advancements in Material Science (NSAIMS-2014), AIJHM College, Rohtak, March 10, 2014.

[3] Z-scan studies and optical limiting behaviour of PbO·Bi₂O₃·SiO₂ glasses

Rajni Bala, Ashish Agarwal, Sujata Sanghi

2nd National Conference on Photonics & Materials Science (NCPMS-2014), Guru Jambheshwar University of Science & Technology, Hisar, March 20-21, 2014.

- [4] Effect of SiO₂ on the conductivity and dielectric properties of CdO·Bi₂O₃·SiO₂ glasses
Rajni Bala, Ashish Agarwal, Sujata Sanghi
International Seminar on Glasses and other Functional Materials (ISGFM-2014),
Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, Andhra Pradesh, Dec.11-13,
2014 (Received Best Poster Award).
- [5] Optical Absorption Studies in Cadmium Bismuth Silicate Glasses
Rajni Bala, Ashish Agarwal and Sujata Sanghi
3rd National Conference on Photonics & Materials Science (NCPMS-2015), Guru
Jambheshwar University of Science & Technology, Hisar, Nov. 18-19, 2015.

Seminar/Workshop/Symposia attended

- [1] One Day “*IUAC Acquaintance Programme on Accelerator Based Science and Technology*”, Guru Jambheshwar University of Science & Technology, Hisar,
Oct. 23, 2009.
- [2] One day workshop on “*Material Science*”, Dept. of Physics, Maharshi Dayanand
University, Rohtak, **March 25, 2011.**
- [3] Workshop on “*Introduction to Fortran and C++ Languages*”, Dept. of Physics, Maharshi
Dayanand University, **Oct. 28-30, 2011.**
- [4] National workshop on “*Trends in optical coating for head up display and high laser
damage threshold*”, Dept. of Applied Physics, Guru Jambheshwar University of Science &
Technology, Hisar, **June 25, 2011.**
- [5] Workshop on “*Semiconductor Device Fabrication & Applications*”, Dept. of Physics,
Maharshi Dayanand University, Rohtak, **Feb. 13, 2012.**
- [6] National Symposium on “*Electroceramics-Materials and Devices (NSD-MD-2014)*”, G. V.
M. Girls College, Sonapat, **Feb. 21-22, 2014.**