



Madhu Bala
Assistant Professor
Department of Chemistry
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EDUCATIONAL QUALIFICATIONS: M.Sc, M.Phil, SET, GATE, NET with JRF

Sr. No.	Degree	Subject	College/University	Year of Passing
1	B.Sc	Physics, Chemistry, Maths, English	Govt. Degree College Nadaun	2014
2	M.Sc	Chemistry	Himachal Pradesh University Shimla	2016
3	M.Phil	Chemistry	Himachal Pradesh University Shimla	2017
4	Ph.D	Chemistry	Himachal Pradesh University Shimla	Under Submission
5	NET-JRF	Chemistry		2018
6	GATE	Chemistry		2017,2018
7	SET	Chemistry		2018

Member:

Women Cell, Media Cell, Ship Incharge



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ACHIEVEMENTS:

➤ ACADEMIC

- ❖ 10th position in state merit in class 11th
- ❖ 6th position in state merit in B.Sc
- ❖ Awarded with INSPIRE fellowship from 2011-2016
- ❖ Awarded with HPU-JRF from 2016-2017

➤ PUBLICATIONS

- ❖ Investigation of the molecular interactions of the drug Diclofenac Sodium Salt in water and aqueous sorbitol systems at different temperatures (305.15K-315.15K) Shashi Kant Lomesh, **Madhu Bala**, Dinesh Kumar, Inesh Kumar Journal of Molecular Liquids 289 (2019) 109479.
- ❖ Physicochemical approach to study the solute-solute and solute-solvent interactions of the drug Levofloxacin hemihydrate in aqueous sorbitol solutions at different temperatures: Volumetric, acoustic and conductance studies Shashi Kant Lomesh, **Madhu Bala**, Vikas Nathan Journal of Molecular Liquids 283 (2019) 133-146.
- ❖ Volumetric and acoustic methods for investigating molecular interactions of the antibiotic drug doxycycline hyclate in water and in aqueous solutions of sodium chloride and potassium chloride at different temperatures Shashi Kant Lomesh, Vikas Nathan, **Madhu Bala**, Poonam Thakur Journal of Molecular Liquids 284 (2019) 241-251.
- ❖ Volumetric, ultrasonic and conductance behaviour of Metformin Hydrochloride in water and aqueous sorbitol at different temperatures Shashi Kant Lomesh, Inesh Kumar, Dinesh Kumar, **Madhu Bala** Journal of Indian Chemical Society, 96 (2019) 1467-1482.
- ❖ Interactions of drug doxycycline hyclate with galacitol in aqueous solutions at different temperatures by volumetric and acoustic methods Shashi Kant Lomesh, Vikas Nathan, **Madhu Bala**, Inesh Kumar Z.Phys.Chem. Volume 234 Issue 11-12



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➤ PARTICIPATION IN CONFERENCES AND SEMINARS

- ❖ Poster Presented at International Conference “Science :Emerging Scenario and Future Challenges”(SESFC 2018) on “**Volumetric and acoustic studies of Diclofenac Sodium Salt in Aqueous solutions of Sorbitol at Different Temperatures**”
- ❖ Poster presented at National Conference on “Advances in Chemical and Environmental Engineering” (March 2019) on “**Investigation on molecular interactions of antibiotic drug Levofloxacin hemihydrate in aqueous sorbitol solution using volumetric and acoustic studies at different temperatures**”
- ❖ Participated in the National Seminar on **Raman Spectroscopy** organized by **Vigyan Bhart, Himachal Pradesh** at Physics Department, HPU on 12th Nov. 2019.
- ❖ Participated in the Training Programme on **Significance Of Calibration Of Measuring Equipment & Its Impact In Research** held on 12th & 13th June, 2019 jointly organized by National Research & Technology Consortium, Parwanoo and Deptt. of Biotechnology of HP University, Shimla.
- ❖ Oral Presentation of research paper titled **Volumetric and acoustic methods for investigating molecular interactions of the drug Streptomycin sulphate in aqueous Sorbitol solutions at different temperatures** International e-Conference on Progress of Science and Technology During Pandemic (PSTDP-2021) September 11-12, 2021 organised by Him Science Congress Association.



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