

Shri Shivaji College of Arts, Commerce and Science, Akola
Faculty Profile



1. Name : Dr.Jaishree Vivek Bhale

2. Address (residential) : C/O Mr Tushar Ramesh Suley,
20, “Jidnyasa”, Khedkar nagar,
Near Disha prashikshan kendra, Akola
Dist. Akola. (Maharashtra State)
India. Pin .No. 444005.

3. Phone No. / Cell No. : +91-9926154939

4. E-mail address: bhalejaishree@gmail.com

5. Designation : Assistant Professor

6. Department : Department of Physics

7. Date of birth : 06 Jan 1973

8. Area of specialization : Solid State Physics & Digital Electronics

9. Academic qualification

Examination passed	Board/ University	Subject/ Specialization	Year of passing	Division/ Grade/ Merit
Bachelor's Degree	Amravati University	Physics, Electronics, Mathematics	1994	First
Master's Degree(M.Sc.)	Amravati University	Physics	1997	First
M.Phil	Madurai Kamraj University	Physics	2012	Second
B.Ed	Shri Devi Ahilya Vishwavidhyalaya		1998	First

Ph.D.	Shri Devi Ahilya Vishwavidhyalaya	X-Ray, K-Absorption Near Edge And Fine Structural Studies Of Some Copper (II) Complexes	2016	
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10. Membership of Academic Organizations:

a) The Indian Association of Physics Teacher, Kanpur.

11. Seminars/ Conferences/ Symposia/ Conferences attended and organised

S.No	Name of the Conf./Seminar/ Workshop etc	Place and Name of the Sponsoring Agency	Date	Paper Presented
1.	National Seminar on Nanomaterials: Synthesis and Application (NSNSA-2013)	Govt Autonomous Post Graduate College, Chhindwara (M.P)	4-6 March 2013	Paper Presented
2.	International Conference on Recent Trends in Physics (ICRTP 2014)	School of Physics, DAVV, Indore (M.P)	22-23 Feb 2014	Paper Presented
3.	National Seminar on Recent Trends in Nanophysics (NSRTN 2014)	UGC Bhopal , IAPT and PMB Gujarati Science College, Indore (M.P)	25-26 Feb 2014	Paper Presented
4.	National Conference on Emerging Trend in Physical and Chemical Sciences(NCET-PCS 2014)	M.P Council of Science and Technology, Bhopal and Govt Holkar Science College, Indore (M.P)	15-16 March 2014	Paper Presented
5.	National Conference on Emerging Trend in Nanoscience (ETNS-2014)	Medicaps Groups of Institutions, Indore (M.P)	12 Sept 2014	
6.	National Conference on	Shri Vaishnav	14 Oct 2014	Paper Presented

	Innovative Trends in Applied Sciences, Humanities, Management and Environment (ITASHME- 2014)	Institution of Technology and Science, Indore (M.P)		
7.	National Multi Conference on Modern Advances in Physics for Interdisciplinary Developments	Dept of Engineering Physics, Lakshmi Narain College of Technology, Indore (M.P)	29 Nov 2014	
8.	National Seminar on Women Empowerment and Their Role in Sustainable Development of India (3 rd Madhya Pradesh Women Science Congress) 2014	M.P Council of Science and Technology, Bhopal and Govt Holkar Science College, Indore (M.P)	29-29 Dec 2014	Paper Presented
9.	Prof. Babulal Saraf Memorial All India Laboratory Workshop on Experimental Physics For P.G Teachers	MPCST, IAPT & UGC-DAE-CSR, INDORE	Feb 2-7 2015	Participation
10	Training program on SPSS system	Shri Cloth Market Institute of Professional Studies, Indore (M.P)	14-15 March 2014	Attended
11.	National Conference on Recent Advances in Physical and Mathematical Sciences (NCRAPMS-2020)	Shri Shivaji College Of Arts, Commerce and Science, Akola (M.S)	18 Jan 2020	Paper presented
12.	National Conference on Multidisciplinary Reseach in Science and Technology(NCMRST-2020)	Shri R.L.T College of Science, Akola(M.S)	24 JAN 2020	Paper presented
13.	National Conference on New Horizons in Advanced Materials Development and Their	Dept. of Applied Physics, Bhilai Institute of Technology, Durg	20 Nov 2020	Paper presented

	Characterisation to Combat Current Challenges.	(Chhattisgarh).		
14.	Sixth International Conference on Advances in Materials Science (Online)	Post – Graduate Department of Physics , Raje Ramrao Mahavidyalaya, Jath	23-24 April 2021	Paper presented
15	National e-Conference on Advances in Mathematics and Physics	Department of Mathematics and Physics, Shri Datta Arts, Commerce and Science college , Hadgoan, Nanded	12 May 2021	Paper presented
16	National e-Conference on Recent Trends in Physical Sciences (NCRTPS-21)	Department of Physics and IQAC of Indira Gandhi Kala Mahavidyalaya, Ralegaon, Yavatmal	07 August 2021.	Paper presented
17	International e-Conference on New Horizons and Multidisciplinary Applications in Science And Technology(ICMA-2021)	Faculty of science and IQAC,Shri VitthalRukmini college , Sawana, Yavatmal	11- 13 Oct 2021	Paper presented

12. Teaching Experience

Courses Taught	Name of the University/ College/ Institution	Duration
H.Sc	Various CBSE Schools of Indore (M.P)	13 Years
UG	Shri Cloth Market Institute of Professional Studies, Indore (M.P)	6 Years
UG	Shri Shivaji Arts, Commerce	2.5 yrs

13. Innovations/ Contributions in Teaching**a. Design of Curriculum:**

For classroom lectures synopsis is already distributed well in advance to the students and make them aware for further preparation to keep them ready for questions in the classroom.

b. Teaching Methods:

- i) Usual Classroom teaching method adopted usually along with some model, Chart, OHP and LCD projector used for special lectures as when required.
- ii) Seminar in different units as per syllabus.

c. Laboratory Experiments: -

- i) Experimental Demonstration, followed by explanation on actual practical.
- ii) Encouraging students to fabricate and design various experiments based on syllabus.

d. Preparation of resource materials:-

- i) Notes on theory as well as practical are distributed and some reference books for up-to-date knowledge is recommended.
- ii) Practical manuals were prepared for each experiment and made available for students.

e. Remedial teaching:

Guidance to the students weak in studies during free and spare time.

14. Role in college activities:

- i) Career Guidance and Placement cell, ii) Admission Committee, iii) Quiz Competition Committee, iv) Students Seminar Competition, v) Science Exhibition.

15. Role in university activities:

Invigilation in University Examination and College test Exams

16. Any Important Publications, Any other Achievements, Any information (Optional):

(starting with the latest)

List of publications as on 1 Jan. 2020**(National and International Journal publications): 17**

1. XAFS Study of Mixed Ligand Copper (II) Complex of Salicylic Acid, **Jaishree Bhale** , Satish Shelke, Gitanjali Kale, F.H.Kurane Inamdar ,Pradeep Sharma, Journal of Emerging Technologies and Innovative Research, *Volume 6, Issue 4, April 2019*.
2. XANES and EXAFS Studies of Copper(II) Complexes of 1,4-Dihydroquinoline-2,3-dione, **Jaishree Bhale**, Satish Shelke, Sangshetty Kalayne, Pradeep Sharma , Journal of Emerging Technologies and Innovative Research, *Volume 6, Issue 3, March 2019*.
3. XANES Study of Copper (II) Complexes of p-toluidine, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, Imperial Journal of Interdisciplinary Research, *Vol-3, Issue-5, 2017*.
4. EXAFS Study of Copper (II) Complexes of Aromatic Aldehydes, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal for Scientific Research & Development, *Vol. 5, Issue 02, 2017*.

5. Extended Fine Structure of the X-ray K-Absorption Discontinuity in Some Copper(II) Mixed Ligand Complexes of Benzaldehyde, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal for Innovative Research in Science & Technology, Vol 3, Issue 12, May 2017.
6. XAFS Study of Copper (II) Complexes of P Anisidine, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, Journal for Innovative Research in Science & Technology, Vol 3, Issue 12, May 2017.
7. EXAFS Study of Copper (II) Mixed Ligand Complexes of 8 – Hydroxyquinoline, **Jaishree Bhale**, Pradeep Sharma & A. Mishra, Imperial Journal of Interdisciplinary Research, Vol-3, Issue-4, 2017.
8. XANES Study of Copper (II) Complexes of Aeromatic Amines, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal for Scientific Research & Development, Vol. 5, Issue 02, 2017.
9. Extended X-Ray, K-absorption Fine Structural Studies of Mixed Ligand Copper (II) Complexes of p-Chloro benzaldehyde, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal of Mathematics and Physical Sciences Research, Vol. 3, Issue 2, 2016.
10. XAFS Study of Copper ((ii) Mixed-Ligand Complexes of 8-Hydroxyquinoline, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal of Engineering Sciences and Computing, Vol 6, Issue 4, 2016.
11. X-ray Spectral Study by EXAFS of Some Copper (II) Complexes using Synchrotron Radiation Source, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, S.Ninama, International Journal of Chemical and Physical Sciences, Vol. 5, Issue 2, 2016.
12. X-Ray, K-Absorption Spectroscopic Studies of Mixed Ligand Copper (II) Complexes of Benzaldehyde, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, IJCPS, Vol. 5, No.-3, 2016.
13. XANES Study of Copper((II) Mixed-Ligand Complexes of 8-Hydroxyquinoline, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal of Chemical and Physical Sciences, Vol. 5, No-2, 2016.
14. Extended Fine Structure of the X-Ray K-Absorption Discontinuity in Some Copper (II) Mixed Ligand Complexes, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, International Journal of Engineering Sciences and Computing, Vol 6, Issue 5, 2016.
15. XANES Study of Copper (II) Mixed Ligand Complexes of alpha-Aminonitrile, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, Neetu Parsai, International Journal of Mathematics and Physical Sciences Research, Vol. 2, Issue 2, 2015.
16. Determination of bond length from EXAFS spectra of some copper(II) mixed ligand complexes, **Jaishree Bhale**, Pradeep Sharma, A. Mishra, Neetu Parsai, International Journal of Scientific Research in Physics and Applied Sciences, Vol-3, Issue-3, 2015.
17. X-Ray Diffraction Studies of Copper (II) Complexes, Pramod Malviya, A.Mishra, Pradeep Sharma, **Jaishree Bhale**, International Journal of Scientific Research in Physics and Applied Sciences, Vol-2, Issue-1, 2014.

Conference Publications: 10

1. XANES Study of New Copper (II) Complexes of α -aminonitrile Derived from p-methoxybenzaldehyde with p-anisidine, **Jaishree Bhale**, Pradeep Sharma, A. Mishra and

- Neetu Parsai , National Seminar on Recent Trends in Nanophysics- 25-26 Feb 2014, International Journal of Scientific Research in Physics and Applied Sciences, *Vol-3, Issue-1, 2015*.
- 2.Synthesis and Spectroscopic Characterization-XRD of Mixed Ligand Cu(II) Complexes of 8-Hydroxyquinoline and *o*-hydroxybenzylidene-1-phenyl-2,3-dimethyl-4-amino-3-pyrazolin-5-on, **Jaishree Bhale**, Pradeep Sharma, A.Mishra, Seema Upadhyay, Pramod Malviya, National Seminar on Recent Trends in Nanophysics- 25-26 Feb 2014, International Journal of Scientific Research in Physics and Applied Sciences, *Vol-3, Issue-1, 2015*.
- 3.Synthesis and X-ray diffraction study of new copper (II) complexes of α -aminonitrile derived from P- methoxybenzaldehyde with aromatic amine, Pradeep Sharma, **Jaishree Bhale** , Ashutosh Mishra and Pramod Malviya, International Conference on Recent Trends in Physics (ICRTP 2014), Journal of Physics: Conference Series 534 (2014) 012027.
- 4.Synthesis and X-ray diffraction study of some nickel(II) complexes of urea and thiourea, Pradeep Sharma,, **Jaishree Bhale**, Ashutosh Mishra and Pramod Malviya, International Conference on Recent Trends in Physics (ICRTP 2014), Journal of Physics: Conference Series 534 (2014) 012044.
- 5..X-ray near edge studies on copper (II) carbamide complexes, Ashutosh Mishra, Pradeep Sharma, Pramod Malviya and **J. Bhale**, International Conference on Recent Trends in Physics (ICRTP 2014), Journal of Physics: Conference Series 534 (2014) 012026 .
6. XANES Study of Some Divalent Copper Complexes of Schiff Base Ligand, **J. Bhale** and S.K. Devade, Vidyabharati International Interdisciplinary Research Journal (Special Issue – May 2020), 338-342.
7. Synthesis and characterization of Photovoltaic SnO₂ thin films, D.A. Zope, **J.V. Bhale** and S.K. Devade, Vidyabharati International Interdisciplinary Research Journal (Special Issue – May 2020), 284-286.
8. Xanes Study Of Some Cobalt (II) Complexes Of Aldehydes' cylaldehyde, **Jaishree Bhale**, Mona Gupta' Pradeep Sharma, and A. Mishra, Aayushi International Interdisciplinary Research Journal (Special Issue No.70), (2020), 236-240.
9. XAFS Study of Schiff base Copper(II) Complexes of Salicylaldehyde, **Jaishree Bhale**, Mona Gupta' Pradeep Sharma, and A. Mishra, Carbon – Science and Technology' 12/1 (2020)' 12-20.
10. Determination of some X-ray near Edge parameters of Nickel (II) Complexes of Schiff base ligands, Jaishree Bhale, Mona Gupta' International e-Conference on New Horizons And

Multidisciplinary Applications In Science And Technology In Association with International Journal of Scientific Research in Science and Technology, *Vol-9, Issue-6, Oct- 2021*, 1093-1099.