

## Teaching Faculty Profile

- Name: Dr. Ashok A. Mistry (Professor & Head)
- Date of Birth:13/12/1977
- Unique ID (Aadhar No.):493061954498
- Education Qualifications: M.Sc. Ph.D. UGC-SET
- Work Experience: 20 Years
- Teaching: 20 Years
- Research:13 Years
- Industry: Nil
- Others: Nil
- Area of Specialization: **Ultrasonics and Luminescence**
- Courses taught: B.Sc. & M.Sc.
- Research guidance (Number of Students): **06**

Sr. No.	Name of candidate	Mobile No.	GUG Reg. No.	Date of Registration	Name of Guide
1	Ms. Bharti P. Bawanthede	8550946601	No.GU/Exam/Ph. D.Cell/RRC/Ph.D. 468	04/03/2020	Dr.Ashok Mistry
2	Mr. Suresh G. Rathod	9921644100	No.GU/Exam/Ph. D.Cell/RRC/Ph.D. 999	07/09/2020	Dr.Ashok Mistry
3	Ms. Pragati K. Tale	8605074166	No.GU/Exam/Ph. D.Cell/RRC/Ph.D. 994	07/09/2020	Dr.Ashok Mistry
4	Mr. Atulsingh Rathod	986009840	No.GU/Exam/Ph. D.Cell/RRC/Ph.D. 537	06/05/2022	Dr.Ashok Mistry
5	Mr. Sachin H. Zade	9923513616	No.GU/Exam/Ph. D.Cell/RRC/Ph.D. 784	06/05/2022	Dr.Ashok Mistry
6	Mr. Akshay B. Pimpalkar	8668385939	No.GU/Exam/Ph. D.Cell/RRC/Ph.D. 865	07/08/2023	Dr.Ashok Mistry

- Ph.D. (Completed/Ongoing): **Completed**
- Projects Carried out: **Yes (Minor Research project Funded by UGC, (WRO), Pune (2016-2018).**
- Patents (Filed & Granted): **Granted (Design No.414649-001 Date:24/4/2024, The Patent Office, Government of India)**

- Research Publications (No. of papers published in National/International Journals/Conferences):31

Sr.No.	Title of Research Paper	Journal and its Issues in which Published	Year
01	Acoustic and excess parameters studies on interaction in ternary liquid mixtures using ultrasonics technique.	Journal of Science Information (JSI Vol.2(1) pp. 27-33, ISSN : 2229-5836	2011
02	Comparison between experimental result and theoretical prediction using Flory's theory for the binary liquid mixtures	Advances in Applied Science Research, Pelagia Research Library, 2(6), pp. 70-77, ISSN: 0976-8610	2011
03	Acoustical Studies on ternary mixtures of toluene in cyclohexane and nitrobenzene at 308K using ultrasonic technique	Journal of Chemical and Pharmaceutical Research, Vol.4 (1), pp. 170-174, ISSN-0975-7385.	2012
04	Thermo-acoustical molecular interaction studies in ternary liquid mixtures using ultrasonic technique at 303K.	Adv. Appl. Sci. Res., 4(2), 54-59. ISSN-0976-8610	2013
05	Thermo-acoustical and Non-linear molecular interaction studies in ternary liquid mixtures at 298K	IOSR Journal of Applied Physics (IOSR-JAP), 1-3, ISSN: 2278-4861.	2014
06	Acoustical & thermo dynamical study of Toluene in Cyclohexane & nitrobenzene at 293K, 298K and 303K" using Ultrasonic Technique transparent tin oxide thin film	Journal of pure applied & industrial physics, 4(1), 21-28. ISSN: 2229-7596	2014
07	Studies of acoustic and thermodynamic properties of aqueous sodium hydroxide and Dimethyl sulfoxide system at 303.15K and at frequency 4MHz.	IJSR, ISSN (Online) 2319-7064, Impact Factor 4.438.	2015
08	Thermo-Acoustic interaction of aqueous LiOH.H <sub>2</sub> O and 1,4 Dioxane at different temperatures.	AJANTA, ISSN-2277-5730, Volume-VIII (1),104-109,Impact Factor 5.5. <b>UGC Listed Journal</b>	2019
09	Molecular interaction of aqueous LiOH.H <sub>2</sub> O in DMSO at different temperatures.	Research Journey, 2348-7143, Special Issue. Impact Factor 6.621. ISSN-2348-7143 <b>UGC Approved Journal</b>	2019
10	Ultrasonic study of molecular interaction in the mixture of aqueous potassium hydroxide with N-Dimethyl Formamide at different temperatures.	TROI, 2393-8374, Vol.6 (1), 1021-1025. ISSN-2393-8374(Print), ISSN-2394-0697(Online). <b>UGC Approved Journal (Thomson Reuters)</b>	2019

11	Study of molecular interaction of Pentanol and n-Heptane using ultrasonic technique at different temperatures.	Int. Res. J. of Science & Engineering, 2020; Special Issue A7: 201-205 SJIF Impact Factor 6.68 ISSN:2322-0015	Feb/2020
12	Thermodynamic Study of Binary mixture of Butanol and n-Heptane at Different Temperatures and Concentration.	Int. Res. J. of Science & Engineering, 2020; Special Issue A7: 201-205 SJIF Impact Factor 6.68 ISSN:2322-0015	Feb/2020
13	Study of density, ultrasonic velocity and viscosity for binary liquid mixture of Hexanol and n-Heptane at different temperatures	Parishodh Journal Volume IX, Issue III, ISSN NO:2347-6648	March/2020
14	Determination of thermo-acoustic parameters of binary mixture of Propanol and n-Heptane at different temperatures (298.15,303.15 & 308.15 K)	Parishodh Journal Volume IX, Issue III, ISSN NO:2347-6648	March/2020
15	Acoustic behavior of Aqueous lithium hydroxide with dimethyl foramide at different temperatures using Pulse Echo technique	Int.Res.J.of Science & Engineering, <b>Special Issue A10</b> ISSN-2322-0015	17-18 August /2020
16	Thermodynamical studies on ternary mixture of sodium hydroxide in aqueous medium & 1,4 dioxane using Ultrasonic Interferometer techniques at different temperatures	Int.Res.J.of Science & Engineering, <b>Special Issue A10</b> ISSN-2322-0015	17-18 August /2020
17	Thermo-Acoustical and Excess Parameters in Ternary Mixture of Containing Aqueous KOH in Dimethyl sulfoxide at different temperatures	International Journal of Scientific Research in Science and Technology <b>UGC Journal No.64011</b> ISSN-2395-6011	February/2021
18	Thermo Acoustic study of Different Parameters for Ternary Mixture of Potassium Hydroxide & 1,4 Dioxane Using Ultrasonic Interferometer	International Journal of Scientific Research in Science and Technology <b>UGC Journal No.64011</b> ISSN-2395-6011	February/2021
19	Analysis of the Lift-OFF and Further motion of a Rocket.	International Journal of Researches in Biosciences, Agriculture and Technology A Double –Blind Peer Reviewed & Refereed Journal Issue(X) Vol(II)	May/2022
20	Excess thermo-acoustical parameters in ternary mixture containing aqueous sodium hydroxide and Dimethyl foramide at different temperatures	International journal of Advanced research in Science, Communication and Technology (IJARSCT) Vol. 3 Issue	Feb 2023
21	Synthesis and study of luminescence properties of a deep red– emitting phosphor	Received: 29 August 2023 Revised: 26 October 2023 Accepted: 1 November 2023	2023

	K2LiAlF6:Mn4+ for plant cultivation	<b>Luminescence Willey (Scopus)</b>	
22	Synthesis and Study of Optical Properties of Dy3+ Doped Yellow Emitting Fluoroapatite for White - LED Applications	Journal of Physics: Conference Series <b>(Scopus)</b>	2023
23	Luminescence in NaCa2Mg2V3O12 garnet	AIP Conference Proceeding <b>(Scopus)</b>	2024
24	Synthesis of Tb doped NaYF4 crystals by using solid state metathesis with different concentrations of Tb	AIP Conference Proceeding <b>(Scopus)</b>	2024
25	Synthesis and study of luminescence properties of a deep red-emitting phosphor K2LiAlF6:Mn4+ for plant cultivation	Luminescence 39 (2), e4629	2024
26	Synthesis and luminescence properties of intensely red-emitting Na5Y(WO4)4:Eu3+ phosphor	Journal of Materials Science: Materials in Electronics 35 (5), 336	2024
27	Synthesis and study of structure and optical properties of RE3+(RE = Sm3+ and Tb3+) activated Ca8NaBi(PO4)6F2 orange-red and green emitting	Journal of Materials Science: Materials in Electronics 35 (5), 355	2024
28	Synthesis and study of optical properties of a Gd3+-doped NaYF4 phosphor for phototherapy lamp application	Luminescence 39 (4), e4736	2024
29	Luminescence characterization of rare earth (RE= Tb, Dy, Eu) ions activated Ca8NaGd(PO4)6F2 halophosphor synthesis by modified Pechini method	Journal of Materials Science: Materials in Electronics 35 (11), 1-20	2024
30	Study of optical properties of Sr10(PO4)6F2 apatite kind phosphor prepared by co-precipitation method for W-LED applications	Journal of Materials Science: Materials in Electronics 35 (18), 1259	2024
31	Synthesis and investigation of the optical characteristics of RE3+ activated Ca2Li2Si2O7 (Rare earth = Eu, Tb) phosphor	Chemical Physics Impact (Elsevier) Chemical Physics Impact 9 (2024) 100752	2024

	for W-LED application		
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- Books published with details (Name of the book. Publisher with ISBN, year of publication etc.)

Sr.No.	Chapter in Books /Books Edited /Books / Research Books	Editor / Publisher	Year
01	S.Y. B. Sc. SEM-III Physics (Paper I & II)	G. C. Publishers ISBN: 978-93-82962-94-6	2015
02	A textbook of Physics for B.Sc.Sem-III Paper-I Thermal Physics	M/s.Rajni Prakashan. ISBN:978-93-82683-37-7	2018
03	A textbook of Physics for B.Sc.Sem-I Paper-I Mechanics and Relativity	M/s.Rajni Prakashan. ISBN:978-93-82683-45-2	2018
04	A textbook of Physics for B.Sc.Sem-IV Paper-I Waves, Acoustics and Laser	M/s.Rajni Prakashan. ISBN:978-93-82683-57-5	2018
05	A textbook of Physics for B.Sc.Sem-IV Paper-II Optical Physics	M/s.Rajni Prakashan. ISBN:978-93-82683-54-4	2018
06	<b>Book Chapter</b> "An Overview of Non Linear Optical Single Crystals"	Book "Bulk Crystal Growth: Techniques & Technologies" DNA Publication	December/2020
07	<b>PHYSICS</b> <b>B.Sc. Semester V (CBCS)</b> <b>Paper-I &amp; Paper-II</b>	Himalaya Publishing House ISO 9001:2015 Certified	2023

- Date of Joining:14/07/2005
- Date of Retirement:31/12/2037

- Life Member: **ABRSM Gondwana University, Gadchiroli**
- Member BOS/Senate/Academic Council/ Management Council: **Member BOS**