

FACULTY PROFILE

OF

Prof. SANDESH RAMRAO BHITRE

Department of Physics

Jijamata College of Science and Arts,

Dnyaneshwarnagar

Bhende

BIODATA

NAME: - Dr. SANDESH RAMRAO BHITRE

DESIGNATION: - Professor in Physics

DATE OF BIRTH: - 31st July 1969

DATE OF JOINING: - 6th September 1994

ADDRESS: - Plot No. 10, Vasundhara Colony,

Near Nandanvan colony,

Aurangabad 431002

QUALIFICATION:-

a) Academic:-

Degree	Year of Passing	Percentage
B.Sc.	1990	53.5
M.Sc.	1992	55.8
D.B.M.	1993	52.9
B.Ed.	1994	67.4
Ph.D.	2006	

b) Other

N.I.S. Cert. (Hockey) 1990

MS-CIT 2003

SUBJECTS TAUGHT

F.Y. B.Sc.

Modern Physics, Optics, Properties of Matter, Emerging Physics, Electricity and Magnetism, Physics Principles and Applications

S.Y. B.Sc.

Electricity and Magnetism, Optics, Electronics.

T. Y. B.Sc.

Quantum Mechanics, Classical Mechanics, Nuclear Physics, Atomic and molecular Physics, Technical/Auxiliary Electronics.

TEACHING METHODS:-

1. Teaching is done by usual chalk and talk method i.e. by delivering lecture using black board for writing and drawing required figures.
2. Lecture is given by Power point presentation using overhead projector.
3. Seminars by students are organized on certain topics.
4. Group discussion by students are organized on certain topics.
5. Experiment based learning is provided to get practical knowledge to the students.
6. Question and answer based teaching is followed.
7. Project-Based Learning is followed for T.Y. students.
8. Adaptive teaching is provides all learners to give opportunity to meet expectations of students.
9. Interactive/participative method is adopted.

OTHER CONTRIBUTION:-

- 1) Conduct of Internal Examination
- 2) Internal Senior supervisor
- 3) Conduct of Practical Examination

HELP IN VARIOUS COMMITTEES:-

- 1) N.S.S. advisory committee
- 2) Cultural Activities
- 3) Sports and Games
- 4) UGC college coordinator
- 5) Prize Distribution
- 6) NAAC steering committee
- 7) Member IQAC

EXTRA MURAL ACTIVITIES:-

- 1) Lecture at NSS camp on Personality Development
- 2) Lecture at Soft skill for students on Time Management
- 3) Lecture at Spoken English Class

ORIENTATION/REFRESHER SHORT TERM COURSES:-

- a) Orientation course in science from 2 May 1997 to 30 May 1997 organized by Academic Staff College, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad.
- b) Refresher course in Physics from 5 September 2002 to 27 September 2002 organized by UGC-Refresher Course Center, Academic Staff College, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad.
- c) Refresher course in Physics from 27 January 2007 to 15 February 2007 organized by UGC-Refresher Course Center, Academic Staff College, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad.
- d) Refresher course in Disaster Management from 27 Oct. 2014 to 15 Oct 2014 organized by UGC-Refresher Course Center, Academic Staff College, Dr. Babasaheb Ambedkar Marathawada University, Aurangabad.
- e) Short Term Programme on Gender Sensitization from 9/10/2017 to 14/10/2017 organized by UGC-HRDC, Hyderabad University, Hyderabad.

ACADEMIC AND PROFESSIONAL GROWTH

RESEARCH WORK / MRP :-

1. Completed Ph.D. in Physics in May 2006.
2. Completed minor research project funded by BCUD University of Pune Entitled “Study of Effect of Doping of Non-Magnetic Al³⁺ on the Structural and Magnetic Properties of Cd Ferrites” during 2011-2013
3. Ongoing minor research project funded by UGC Entitled “Synthesis of Ni and Cd doped ferrite nanocomposite material and study of their structural, electrical and magnetic properties” during 2016-2018

SEMINARS, WORKSHOPS, CONFERENCES AND Publications:-

- 1) Presented paper in the International Conference on “Advanced Materials and Applications-2007” organized by Dept. of Physics, Shivaji University, Kolhapur during 15-17 November 2007.
- 2) Participated in the National Conference on “Current Trends in Materials Research for Advanced Technology” organized by Dept. of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during 29-31 January 2007
- 3) Presented paper in the National Conference on “Physics of Semiconductor Devices and Smart Materials” organized by Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai held on 22-23 December 2007.
- 4) Presented paper in the National Conference on “Materials Science: Trends & Future-2010” organized by Dept. of Physics, Vidya Bharati Mahaviyalaya, Amravati on 6-7 January 2010.
- 5) Presented paper in the National Conference on “Recent Trends in Thin Film Technology” organized by Dept. of Physics, Jijamata College of Science, Bhende, Ahmednagar on 23-24 February 2010.
- 6) Presented paper in the National Conference on “Emerging Trends in Botany, Biotechnology and Environmental Science and their Applications in Rural Development” organized by Dept. of Botany, Jijamata College of Science, Bhende, Ahmednagar on 23-24 February 2010.
- 7) Presented paper in the National Seminar on “Recent Trends in Materials Science” organized by Dept. of Physics, New Arts, Commerce & Science College, Parner, Ahmednagar on 21-22 February 2010.
- 8) Presented paper in the National Seminar on “Advances in Material Chemistry” organized by Dept. of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during 28-29 January 2011.
- 9) Presented paper in the two days National Seminar on “Recent Trends in Materials Science” organized by Dept. of Physics, Arts, Science & Commerce College, Indapur, Dist-Pune, on 11th & 12th February 2011.
- 10) Participated in Workshop on framing of T.Y.B.Sc. Syllabi in Atomic Physics organized by S.S.G.M. College, Kopergaon on 7/9/97.
- 11) Participated in Seminar in Electronics Science organized by New Arts, comm. And Sci. College, Shevgaon held on 28/2/99. Participated in Workshop on Restructuring of T.Y.B.Sc. Physics Practical Syllabus organized by Ahmednagar College, Ahmednagar on 17 January 2004.
- 12) Participated in one day Workshop on Nanoscience held at the Dept. of Physics, University of Pune on 4 February 2006.

- 13) Participated in Seminar on Recent trends in material Science organized by Shri Anand College, Pathardi, Ahmednagar, held on 25 January 2008.
- 14) Participated in Seminar on Use of Internet in Physics Teaching organized by Chandmal Tarachand Bora College, Shirur (Ghodnadi), Pune, held on 20 December 2008.
- 15) Participated in State Level seminar on “Role of IQAG as a tool for reaccreditation with special reference to student activities, progression and innovation practices” organized by Yashwantrao Chavan Institute of Science, Satara on 10-11 February 2009.
- 16) Participated in one day Workshop of T.Y.B.Sc. Physics Practical’s on G.M. Counter organized by Dept. of Physics, Nowrosjee Wadia College, Pune on 26 August 2010.
- 17) Participated in two days state level Seminar on “ Recent Advances in Spectroscopy & its Applications” organized by Dept. of Chemistry, New Arts, Commerce & Science College, Shevgaon, Ahmednagar on 4-5 February 2010
- 18) Participated in two days state level Seminar on “Nonconventional Energy Sources” organized by Dept. of Physics, Jijamata College of Science, Bhende, Ahmednagar on 29-30 January 2010.
- 19) Participated in State level Workshop on “Computer interfaced Physics Experiments for T.Y.B.Sc. Physics Practical’s” Syllabus organized by Dept. of Physics, Ahmednagar College, Ahmednagar on 7th & 8th January 2011.
- 20) Participated in two days UGC sponsored state level Seminar on “ Nanotechnology & its Applications in Polymaterials & Biomaterials” organized by Dept. of Physics, New Arts, Commerce & Science College, Shevgaon, Ahmednagar on 12th & 13th January 2011.
- 21) *Oral presentation of* Paper entitled “Synthesis And Characterization Of ZnO Nanocomposite Materials ” at state level workshop on “ *Review of progress in Nanoscience*” organized by Department of Chemistry New Arts Commerce and Science College Ahmednagar on 13th and 14th of February 2015.
- 22) Paper entitled “Dielectric behaviour of Cr^{3+} substituted $\text{Ni}_{0.7}\text{Cd}_{0.3}\text{Cr}_x\text{Fe}_{2-x}\text{O}_4$ two day national level Conference " Nanomaterials: Applications and properties" held on 22nd and 23rd February 2013, at Arts, Commerce and Science college, Sonai (MS).
- 23) Paper entitled “Studies in Al^{3+} substituted Ni-Cd ferrites” in national conference on Advances in Nano-structured Materials and their Application organised by Taloda college on 22-23 Jan 2013.
- 24) Paper entitled “Synthesis, Structural and Magnetic Study of Al Doped Ni-Cd Ferrites Material” published in journal shoryabhumi
- 25) Paper entitled “Effect of poly(ethylene glycol) surfactant on carbon-doped MoO_3 nanocomposite materials and its photocatalytic activity published in Bull. Mater. Sci., Vol. 34, No. 3, June 2011, pp. 535–541. ISSN 0250-4707

- 26) Structural Studies in Al^{3+} substituted Cd ferrites, 1178-1186, International Journal of Engineering Technology Science and Research Volume 4, Issue 9 September 2017 ISSN 2394 – 3386
- 27) Magnetic behavior of Al^{3+} Substituted Cd Ferrites, 375-378 , International Journal of Engineering Technology Science and Research Volume 4, Issue 10 October 2017 ISSN 2394 – 3386
- 28) Dielectric Behaviour of Al^{3+} substituted Cd ferrites, 35-38, International Research Journal of Science and Engineering, Special Issue A 3 January 2018 ISSN 2322-0015
- 29) Synthesis, Characterization and Applications of $\text{MoO}_3\text{-Fe}_3\text{O}_4$ Nanocomposite Material, Pg. 15-20 Madhukar Navgire, Akash Nagare, Ganesh Kale, Sandesh Bhitre* Journal of Metallic Material Research | Volume 02 | Issue 02 October 2019 ISSN 2630-5135
- 30) Studies in the Dielectric properties of Cr^{3+} substituted $\text{Ni}_{0.7}\text{Zn}_{0.3}\text{Cr}_x\text{Fe}_{2-x}\text{O}_4$ ferrites, Pg. 72-76, OUR HERITAGE , Vol-68, Special Issue-38 Feb-2020 ISSN 0474-9030
- 31) Synthesis And Structural Studies In $\text{NiO-Fe}_3\text{O}_4$ Nanocomposite Material, Pg. 799-802, Bhitre S. R.,Kale G.K. And Navgire M. E.*, OUR HERITAGE , Vol-68, Special Issue-38 Feb-2020 ISSN 0474-9030
- 32) Identification of Long-Range Transport Pathways of Atmospheric Aerosols over Central Maharashtra , 284-289 Sandesh Bhitre* Rushikash R. Garje** Krishnakant Budhavant Shodh Sarita, Volume-7 Issue-28 Oct-2020 ISSN 2348-2397
- 33) Electrical properties of Al^{3+} Doped $\text{Ni}_{0.7}\text{Cd}_{0.3}\text{Al}_x\text{Fe}_{2-x}\text{O}_4$ ferrites 152-160 Genius, Volume –IX Issue-II Feb-2021 ISSN 2279-0489
- 34) Structural Studies of Zn^{2+} and Pb^{4+} Co-substituted $\text{Ni}_1\text{Zn}_x\text{Pb}_x\text{Fe}_{2-2x}\text{O}_4$ Ferrites, 13-18 Ajanta, Volume –X Issue-II April-2021 ISSN 2277-5730
- 35) Magnetic behavior of Zn^{2+} and Pb^{4+} Co-substituted $\text{Ni}_1\text{Zn}_x\text{Pb}_x\text{Fe}_{2-2x}\text{O}_4$ Ferrites, 33-37 Galaxy Link, Volume –IX Issue-II May-2021 ISSN 2319-8508
- 36) Synthesis and Structural Studies of Al^{3+} doped $\text{Ni}_{0.7}\text{Cd}_{0.3}\text{Al}_x\text{Fe}_{2-x}\text{O}_4$ ferrites. 42-48 Royal Vol-X Issue-I June-2021 ISSN 2278-8158
- 37) One-pot synthesis of 1,8-dioxodecahydroacridines catalyzed by carbon doped MoO_3 material Madhukar E. Navgire^a, Sandesh R. Bhitre^a, Ajeet A. Yelwande^b, Machhindra K. Lande^b Russian Journal of Organic Chemistry *Springer* ISSN PRINT: 1070-4280
- 38) Presented paper entitled “Homi Jehangir Bhabha: Father of the Indian Nuclear Programme” at 16th International interdisciplinary conference, Pune organized by Ramkrushna More College, Pune, Snehavardhan Publishing House Pune ISBN 978-93-87628-44-1
- 39) Design of Visible Light-Assisted Fenton-Like Ni- Fe Oxide Nanocomposites for Photodegradation of Rhodamine-B, Malledham Baithy, Aniruddha Gogoi, Chandan Borgohain, Akash Nagare, Sandesh R. Bhitre, Parikshit Gogoi and Madhukar Navgire, Bulletin of Materials Science ISSN 0250-4707

Publications other than journal articles (books, chapters in books):

Sr. No.	Book Title	Name of the Authors	Publisher	ISSN/ISBN No.	National/ International
1	Magnetic and Electrical Properties of Cr doped Ni-Cd Ferrites	Dr. Sandesh Bhitre,	LAP Lambert Academic Publishing June-2018	978-613-9-84363-3	International
2	Structural and Magnetic properties of Al doped Cd Ferrites	Dr. Sandesh Bhitre,	LAP Lambert Academic Publishing Aug 2017	978-620-2-07748-4	International

OTHER INFORMATION:-

- 1) NSS orientation at NSS, TOC, Ahmednagar, from 2/12/97 to 11/12/97.
- 2) NSS refresher at NSS, TOC, Ahmednagar, from 26/3/99 to 30/3/99.
- 3) NSS refresher organized by NSS, TOC, at Dr. B.A.M. University Aurangabad.
- 4) One day training and workshop on 19/1/2001 organized by NSS, SWO, and Womens Study Center of University of Pune at New Arts Commerce and Science College, Ahmednagar.
- 5) Workshop on Disaster Management for NSS Programme Officers organized by A.C.S. College, Kalwan from 1 July 2001 to 3 July 2001.
- 6) Workshop for NSS Programme Officers organized by Maharaja Sayajirao Gaikwad College, Malegaon from 17 August 2002 to 19 August 2002.
- 7) Worked as Convener of workshop for students on Android Application Development.
- 8) Worked as resource person for “Enterpreneurship awareness Program at PES Polytechnic, Aurangabad.
- 9) Appointed as Editorial Board member of “World Journal of Material science and Technology from 16th Nov. 2022 to 16th Nov. 2024.
- 10) Worked as reviewer for Journal of Environmental and Chemical Engineering July 2022
- 11) Worked as paper Evaluator and Paper setter for MPPSC at Indoor, Madhya Pradesh.
- 12) Worked as paper Evaluator and Paper setter for JPSC at Ranchi, Jharkhand.

Awards

1. National Award for Best Faculty in Higher Education-2021 by Global research foundation international awards and honors (2021) in collaboration of University of Trunojoyo, Madura and IDEI Indonesia on the occasion of teachers day 5th September 2021.