

BIO-DATA

1. Personal Details :

- **Name** : Machhindra Karbhari Lande
- **Present position** : Professor
- **Gender** : Male
- **Marital status** : Married
- **Date of birth** : 01 June 1967
- **Nationality** : Indian
- **Educational qualification** : M. Sc. B. Ed. Ph. D. SET
- **Area of specialization** : Inorganic chemistry
- **Name of organization** : Department of Chemistry
Dr. Babasaheb Ambedkar Marathwada University,
Chhatrapati Sambhajanagar
- **Administrative position availed** : **Head, Department of Chemistry**
(20/07/2020 to 20/07/2023)



2. Academic Record:

Exam.	Board/ University	Subject	Year & Month	Division and Merit	% of Marks.
S. S. C.	Pune	Marathi, Hindi, English, Maths, Science, Social Science	March 1984	II nd	58.57
H.S.C	Aurangabad	Physics, Chemistry, Mathematics, Scot. Mot. Maintenances	March 1986	II nd	50.00
B. Sc.	Marathwada University, Aurangabad	Physics, Chemistry, Maths.	A/M 1989	II nd	57.82
M. Sc.	Marathwada University, Aurangabad	Chemistry	A/M 1991	I st (Second in merit)	62.10
B. Ed	Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar	Maths & Sci. methods	M/A1993	I st	65.10
Ph. D	Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar	Chemistry	January 2000	Awarded	Awarded
SET	Pune university, Pune	Chemistry	March 2000	Qualified	--
MS-CIT	MSBTE, Mumbai	Information technology	April 2006	I st	64.00

3. Career Profile

i). **Title of Ph. D. Thesis:** Studies in Physical Properties of Drugs

ii). **Teaching Experience:**

Course Taught	Name of University/ College Institute	Duration	Nature of appointment
i) Under-graduate B.Sc Chemistry	J. E.S College , Jalna	Academic year 1991-92	Temporary
ii) Post – Graduate M. Sc Chemistry	i. DSM College, Parbhani	Academic year 1994-95	Temporary
	ii. School of Chemical Sciences, North Maharashtra University, Jalgaon	22/03/1999 to 17/06/2002	Permanent
	iii. Department of Chemistry Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar	Since,18/06/2002 till today	Permanent

iii). **Total teaching Experience : 26 years**

- Post Graduate : 25 years
- Under Graduate : 01 year

iv). **Orientation / Refresher Course attended**

Name of the course/ summer school	Place	Duration	Sponsoring Agency
Refresher course in Chemistry	School of chemical Sciences, NMU, Jalgaon	03/03/2002 to 30/03/2002	UGC
Orientation course	Academic staff college, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	05/05/2004 to 31/05/2004	UGC
Refresher course in Chemistry	Academic staff college, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	03/09/2005 to 23/09/2005	UGC
Refresher course in Chemistry	Academic staff college, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	11/02/2008 to 01/03/2008)	UGC
Short term course on Environment Conservation	Academic staff college, Sant Gadge Baba Amravati University , Amravati	27 Aug to 01 Sept 2012	UGC

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v). a) Seminars, Conference, Symposia, Seminar Work-shops etc. attended

Sr. No	Name of the Seminars, , Conference, Symposia, Work-shops etc.	Name of the Agency	Place and date
1.	Participated Indian Council of Chemists	UGC, CSIR	Institute of Sciences, Mumbai held on 28 to 30 Dec. 1995
2.	. Oral presentation Indian Council of Chemists	UGC, CSIR	Dept. of Chem. Dr.B.A.M.U,A'bad held on 24 to 26 Oct. 1996
3.	. Oral presentation Indian Council of Chemists	UGC, CSIR	Dept. of Chem Manglore University, Manglore held on 29 to 31 Dec.1997
4.	Participated National Conference on Industry Education Initiatives in Chemistry	UGC, CSIR	Dept. of Chemistry, Dr.B.A.M.U,A'bad held on 06 to 08 Feb.. 1998
5.	Participated National Symposium on Newer Concepts in Organic Synthesis	UGC	Dept. of Chem. Dr. B.A.M.U, A'bad held on 20 & 21 Mar. 1998
6.	Participated State level seminar on Newer Experiment in chemistry	UGC	Dept. of Chem. Govt. College, Arts, & Sci , Aurangabad held on 27 &28 Nov. 1998
7.	. Oral presentation Indian Council of Chemists	UGC, DST,	School of Chem. Sci. N. M. Uni. Jalgaon held on 27 to 29 Dec. 1999
8.	Participated One day work shop on “ Gas chromatography”	NMU, Jalgaon	School of chem. sci. NMU, Jalgaon on 13/01/2001
9.	Participated 42 nd Annual Convention of Chemists - 2005	UGC, CSIR, DST	Department of Chemistry Visva Bharti , Shantiniketan held on 09 to 13 feb. 2006
10.	Participated & Treasurer 43 rd Annual Convention of Chemists 2006	UGC, CSIR, DST	Dept. of Chem. Dr. B.A. M. Uni, A'bad held on 24 to 27 Dec. 2006
11.	Participated International Conference on Advances in Drug Discovery research	UGC, DST ,CDRI	Dept. of Chem. Dr. B.A. M. Uni,A'bad held on 24 to 26 , Feb. 2007
12.	Participated National seminar on “Biocatalysis and biomimetic catalysis in organic synthesis”	UGC	Department of chemistry Dr. B.A. M. Uni, Aurangabad held on 20-21 march,2009
13.	Participated Science Academies Lecture Workshop on” Probing electronic states in molecules and molecular	Academies of Science, India	Department of chemistry Dr. B.A. M. Uni, Aurangabad and three Academies of Science , India held on 21 to 25 October 2010

	materials”		
14.	Participated 46 rd Annual Convention of Chemists 2009 and International conference on recent trends on chemical sciences	UGC, CSIR, DST	Vellore Institute of technology, Vellore (T.N) 2-6 December,2009
15.	Co-Convener for National Seminar on Advances in Material Chemistry	UGC	Department of Chemistry Dr. BAMU, Aurangabad 28 & January 2011
16.	Poster presentation National conference on “ Sustainable Chemistry : Challenges and Opportunities “	DST UGC, CSIR	Department of Chemistry Dr. B.A.M. University, Sub campus Osmanabad held on 9- 10 January 2012
17.	Poster presentation (Best poster presentation award 49 rd Annual Convention of Chemists 2012	UGC, DST, CSIR	NITTTR, Bhopal Held 12-15 December 2012
18.	Seminar Examiner for Participant	Refresher course in Chemistry / Chemical technology / Pharmacy(ID)	Academic staff college, Dr. B. A. M. University, Aurangabad Lecture delivered on 23 July 2013
19.	Participated DEE-BRNS 2 nd National workshop on Materials Chemistry –NWMC-2013	BRNS, DAE	Chemistry Division BARC, Trombay, Mumbai 22 & 23 Nov, 2013
20.	Poster presentation 50 th Annual Convention of Chemists 2013	UGC , DST, CSIR	Department of Chemistry & center for Advanced studies in chemistry Panjab University , Chandigarh 04 to 07 December 2013
21.	Participated Science Academy work shop		Feb 2014
22.	Poster presentation 51 th Annual Convention of Chemists 2014	UGC , DST, CSIR	Department of chemistry Kurukshetra university, Kurukshetra (Haryana) 09 to 12 December 2014
23.	Pre. Science Congress conference on Chair person -	UGC , DST, CSIR	Department of Chemistry Dr. BAMU, Aurangabad 30, 31 Dec 2014
24.	Participated DEE-BRNS 2 nd National workshop on Materials Chemistry –NWMC-2015	BRNS, DAE	Chemistry Division BARC, Trombay, Mumbai 20 & 21 Nov, 2015
25.	Author workshop jointly organized by Knowledge resource Center (University Library) Dr. Babasaheb Ambedkar Marathwada University , Aurangabad and Springer	University Library	University Library Dr. Babasaheb Ambedkar Marathwada University , Aurangabad

26.	Training programme on Awareness of SCOPUS and Indian citation Index	University Library	University Library Dr. Babasaheb Ambedkar Marathwada University , Aurangabad 22/12/2016
27.	Attended workshop on “Intellectual property right (IPR) ”	Dr. Babasaheb Ambedkar Marathwada University , Aurangabad	RUSA , Maharashtra collaboration With Rajiv Gandhi National Institute of Intellectual property Management , Nagpur & Dr BAMU, Aurangabad On 22 August 2016
28.	Attended Work shop on Right to information Act -2015	YASHADA	Dr. Babasaheb Ambedkar Marathwada University, Aurangabd on 28 th September 2016
29.	Training Programme on Awareness of SCOPUS & Indian citation Index	Dr BAMU Aurangabad	University Library Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 22 , December 2016
30.	Expert for AVISKAR 2016	NMU, Jalgaon	North Maharashtra University, Jalgaon on January 12, and 13 2017
31.	Coordinator-, National Science day Celebration	Dr BAMU Aurangabad	Dr. Babasaheb Ambedkar Marathwada University, Aurangabd on 27- 28 th February 2017
32.	Certificate of appreciation for Departmental IQAC coordinator	Dr BAMU Aurangabad	IQAC Dr BAMU ,Aurangabad 28 March 2018
33.	Chaired a Session , International symposium on “ Exploring new horizons in chemical sciences “	UGC	Department of Chemistry Deogiri College, Aurangabad on 10- 12 th January 2019
34.	Participation Awareness Programme of McGraw Hill E- Books”	Dr BAMU Aurangabad	Knowledge research center university Library Dr BAMU, Aurangabad On 10 January 2019
35.	Participation Two days National Webinar on Chemistry at the interface of biology in response to COVID-19	Dr BAMU Aurangabad	Shri Mukatanand College Gangapur 29 & 30 May 2020
36.	Participation National level Webinar on Post COVID Challenges and opportunity in Higher Education of Chemistry	Dr BAMU Aurangabad	Smt. S. K. Gandhi Arts, Amolak Jain Science and P. H. Gandhi Commerce College, Kada Dist Beed 03 June 2020
37.	Participation One day National e- conference on ‘Significance of chemical science		Department of Chemistry Smt. Radhabai Sarda Arts, Commerce and Science College ,

	in prevention of COVID-19 Pandemic		Anjangaon Dist Amravati 20th June 2020
38.	Participation Webinar On “Nanotechnology in Cancer Treatments”	Dr BAMU Aurangabad	Milind College of Science Aurangabad 02nd July 2020
39.	Participation One day online International conference on” COVID-19 Pandemic : Current Scenario , Challenges in Pharmaceutical Industries and IPR ”		Department of chemistry D.B.F. Dayanand College of Arts & Science , Solapur 04th July 2020
40.	Participation Two days National Online Faculty Development Programme On “Designing and Implementation of Outcome Based Education (OBE) Model ”	Dr BAMU Aurangabad	Shri Mukatanand College Gangapur 07 & 08 July 2020
41.	Participation International Webinar on “Advanced Material for sustainable Development”	--	Department of Chemistry, Chouksey Group College, Bilaspur 12th July 2020
42.	Participation Online national level Webinar on “ Latest Developments in Green Chemistry	--	Amolakchand Mahavidyalaya , Yavatmal in association with RSC West Section IGNU, Nagpur regional center 24th July 2020
43.	Participation One day National Webinar on “Chemical Sciences a perfect Shield for Human Life in Pandemic Era”	--	Department of Chemistry, Arts , Commerce and Science College, Kille- Dharur Dist Beed 25th July 2020

vi). Invited as Resource persons in the National conference/ Seminar/ workshop/ Refresher courses

Sr. No.	Title Of Lectures	Title Of Conference/ Seminar/ Workshop/ Refresher	Organized By
1.	Electronic Spectroscopy of Transition Metal Complexes.	Refresher Course in Chemistry	K.R. T. Arts , B. H Commerce And A. M. Science College, Nashik Held On 26 March To 15 April 2007
2.	Modification, Characterization And Catalytic Applications of Natural Zeolites	National Level Conference on “Recent Trends in Chemical Sciences”	SBES College, Aurangabad Held on 01 & 02 Feb, 2008
3.	Applications of Spectral Techniques For Characterizations of Catalytic Materials	National Seminar “Recent Advances In Spectroscopy & Its Applications”	New Arts Comm.. & Sci College Shevgaon Dist .Ahmednager Held On 04- 05 Feb. 2010

4.	Synthesis, Characterization And Applications of Inorganic Materials	National Seminar on “Recent Trends in Material Sciences”	New Arts Comm.. & Sci College Parner Dist .Ahmednager Held On 21-22 Feb. 2010
5.	Symmetry elements and symmetry operations.	1 st refresher course in research methodology (physics, chemistry and mathematics)	Academic Staff College Dr. B.A. M. Uni , A’bad Held On 10 November 2010
6.	Characterizations of Catalytic Materials Using Spectral Techniques	UGC Sponsored National Seminar on “ Advanced Spectral Methods of Analysis “	Karmaveer Bhaurao Patil Mahavidyalaya , Pandharpur, Dist Solapur Held On December 16 & 17 , 2011
7.	Synthesis, Characterizations and Catalytic Application of Zeolites	National Seminar on “ General Application of Chemistry “	Shri. Sadguru Gangageer Mahraj Science, Gautam Arts And Sanjivani Commerce College Kopargaon, Dist Ahmednagar Held On 11-13 February 2012
8.	Characterizations And Catalytic Applications of Mixed Metal oxides.	National Conference on” Characterization Techniques for Physical , Chemical and Biological Analysis”	Waghire College , Saswad , Tal. Purandar Dist : PUNE Held On 01 To 03 March 2012
9.	I).Basic Requirements for Interpretation Electronic Spectra of Inorganic Metal Complexes. Ii) .Numerical on Electronics spectroscopy	NET/SET Guidance to SC, ST, OBC Students Sanctioned to Yashwant Mahavidyalaya , Nanded By UGC NEW DELHI	Yashwant Mahavidyalaya, Nanded Held On 25/02/2012
10.	Valance bond theory & computational approach for generation of properties of chemical compounds	Chemistry Lecture Series	Shivaji Arts, Commerce And Science College, Kanned Dist Aurangabad On 01/02/2012
11.	Group theory	Refresher course in chemistry/ chemical technology/ pharmacy	Academic Staff College, Dr. B. A. M. University, Aurangabad Lecture Delivered On 25th August 2012
12.	Fundamental Aspects Of Zeolite Materials And Their Application As a Solid Acid Catalyst	National Conference On “ Recent Trends In Chemistry”	Shivaji Arts, Commerce And Science College, Kanned Dist Aurangabad Held On 22 & 23 Sept. 2012
13.	Zeolites: modification, characterizations and utilization as solid acid catalyst	National seminar on “ advances and innovations in chemical sciences” aics-2013	Pamashri Vikhe Patil College Of Arts , Science & Commerce ,Pravaranagar, Dist Ahmednagar Feb 2013

14.	Electronic spectroscopy of transition metal complexes.	Refresher course in chemistry / chemical technology / pharmacy(id)	Academic Staff College, Dr. B. A. M. University, Aurangabad Lecture Delivered On 18 & 19 July 2013
15.	Fundamental aspect of catalytic materials and their applications as catalyst	Upcoming trends in chemical science	Shri.Anand College , Pathardi, Dist. Ahmednagar 6- 7 September 2013
16.	Iac(il)-10 : natural and synthetic zeolites: modification , characterization and catalytic application in organic chemical reactions.	50 th annual convention of chemists-2013	Department Of Chemistry & Center For Advanced Studies In Chemistry Panjab University , Chandigarh 04 To 07 December 2013
17.	Electronic spectroscopy of transition metal complexes. Ii). Fundamentals of catalytic materials,	Pre ph. D. Course in chemistry	Department Of Chemistry Dr. Babasaheb Ambedkar Marathwada University, Aurangabad Held On 24th June -16 July 2014
18.	Synthesis, characterization and applications of heterogeneous catalytic materials	International conference on recent trends and challenges in science and technology	Pamashri Vikhe Patil College Of Arts , Science & Commerce ,Pravaranagar, Dist Ahmednagar Held On 20-22 Aug. 2014
19.	Development of mixed metal oxides and their catalytic applications	National conference on material advances for better futures	Jijamata College Of Science And Arts Bhenda Talc Newasa Dist Ahmednagar Held On 16 & 17 January 2015
20.	Development of Mixed Metal Oxides And Their Catalytic Applications	National Seminar On “ Emerging Trends In Chemical Sciences”	Pamashri Vikhe Patil College of Arts , Science & Commerce ,Pravaranagar, Dist Ahmednagar Held On 21-22 January. 2015
21.	Synthesis, characterization of mixed metal oxides	Refresher course in chemistry / chemical technology / pharmacy(id)	Academic Staff College, Dr. B. A. M. University, Aurangabad Lecture Delivered on 02nd July 2015
22.	Fundamental concepts for interpretation of photoreactivity of transition metal complexes	Refresher course in chemistry / chemical technology / pharmacy(id)	Academic Staff College, Dr. B. A. M. University, Aurangabad Lecture Delivered on 24th , July 2015
23.	Catalytic Applications Of ceo ₂ -mgo-zro ₂ Catalyst In Organic Reactions	State Level Seminars On Optical Activity And Stereo Chemistry	Karmaveer Kakasaheb Wagh Arts, Science And Commerce College, Pimpalgaon Dist. Nasik on 20th , January 2016
24.	Basic concepts of zeolites and their utilization as a	National conference on recent advances in	Department of Applied Science , University Institute

	catalyst for organic reactions	chemical sciences, technology and environment	of Chemical Technology , North Maharashtra University, Jalgaon on 31 January 2017
25.	Zeolite as solid acid catalyst for organic transformation	National conference on recent trends on chemical science	Dadasaheb Rajale Rts And Science College, Adinathnagar, Tal. Pathardi, Dist: Ahmednagar on 22/12/2017
26.	Zeolite as solid acid catalyst for organic transformation	Interdisciplinary national conference on ‘ bioinspired materials in science “	New Arts, Commerce And Science College, Ahmednagar On 19th January 2018
27.	Zeolite as solid acid catalyst for organic transformation	National conference on “new horizons in material science ”	New Arts Comm.. & Sci College Shevgaon Dist .Ahmednager Held on 22 January 2018
28.	Application of computational software in chemistry	National seminar on advances in analytical techniques	Shri Chhatrapati Shivaji College, Shrigonda , Dist Ahmednagar 17 February 2018
29.	Application of computational software in chemistry	Refresher course in computational methods in basic sciences	UGC-HRDC Dr. B. A. M. University, Aurangabad Lecture Delivered on 18th , August 2018
30.	Synthesis , characterization and catalytic application of zeolites	International seminar, Recent advances on chemical sciences and allied areas and 55 th annual convention of chemists-2018	Organized By Department Of Chemistry, G. B. College , T. M. University Bhagalpur (Bihar) on 28 th – 30th December 2018
31.	Characterization and catalytic application of zeolites	Hands on training of instrumental methods for chemical analysis	Department Of Chemistry Shivaji University, Kolhapur 23 To 29th December 2019
32.	Zeolite as a Heterogeneous Catalyst : Fundamental To Application	Two Days State Level Conference on Innovative Nanomaterials has Better Future in Emerging Basis Science	MJM Arts , Commerce And Science College Karanjali ,Dist Nasik 20 & 21st January 2020
33.	Zeolite as a green heterogeneous catalyst : fundamental to application	National Level Seminar on Application of green catalyst and green solvent for sustainable industrial development	Dada Patil Mahavidlaya, Karjat 23 & 24th January 2020
34.	Zeolite as a heterogeneous catalyst : fundamental to application	International conference on bioengineering and life Science	New Arts, Science And Commerce College, Ahmednagar 11 & 12 February 2020
35.	Application of zeolite as a green catalyst for sustainable development	National seminar on green technology for sustainable development	Arts, Science and Commerce College, Kolhar Tal Rahata Dist Ahmednagar 14 & 15 February 2020

36.	Fundamental requirement for interpretation of electronic spectra of metal complexes	FDP on Characterization techniques used in chemical and Biological science	Waghire College of Arts Commerce & Science, Saswad Dist : Pune 14 /02/2022
37.	Examiner to evaluate Book review	Online Refresher course in Disaster Management	UGC-HRDC, Dr Babasaheb Ambedkar Marathwada University, Aurangabad (09/08/2022 to 25/08/2022)
38.	Fundamental Requirement For Interpretation of Photoreactivity of Transition Metal Complexes	Online Refresher course in chemistry	UGC-HRDC, Dr Babasaheb Ambedkar Marathwada University, Aurangabad (10/07/2023 to 22/07/2023)
39.	Electronic spectroscopy and Photochemistry of Transition Metal Complexes	Pre Ph. D. course work - 2024	UGC-Malaviya mission Teacher Training Center HRDC, Dr Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajanagar on 23/04/2024

vii). Reviewer of Journals

- Catalysis Letters
- Green Chemistry Letters and Reviews
- Indian Journal of Pure and Applied Physics.
- Journal of Material Science
- Material Research Bulletin
- Physical Chemistry Chemical Physics
- Iranian Journal of Chemistry and Chemical Engineering
- Chemistry and Biology Interface
- Separation Science and Technology
- International Journal of Biological Macromolecules

viii). Reviewer of Ph. D. Thesis

- Savitribai Phule University, Pune,
- SRTMU, Nanded,
- SGB Amravati University, Amravati,
- Shivaji University, Kolhapur,
- Mumbai University, Mumbai,
- KBC NMU, Jalgaon ,
- Osmania University Hyderabad,

- The Maharaja Sayajirao University of Baroda

ix). Extension activities

- Worked as JRF in DST project sanctioned to Prof. D. V. Jahgirdar, Department of chemistry . Dr. B.A. M. University, Aurangabad during Sept 1995 to Feb 1999
- Worked as NSS program officer for the academic year 2001- 2002, at North Maharashtra University, Jalgaon
- Coordinator of Vidgayan Dindi -2001 during on 28th February to 06 March, 2001 at North Maharashtra University, Jalgaon
- Organized blood donation camp at North Maharashtra University, Jalgaon during 2001 -02
- Coordinator of students study tour for the year 2009-10
- Worked as Treasurer for 43rd Annual convention of chemists- 2006
- Worked as officer in D-CAS Science for Oct/ Nov 2009 Examination
- Worked as Director in D- CAS Science for Oct/Nov-2010 Examination
- Member of Aviskar -2010 , Dr. BAMU, Aurangabad
- Examiner and setter for M. Sc. I to IV semester Examination
- Treasurer of Teacher Credit cooperative Society Since September. 2010 to 2015
- SET/NET guidance to M. Sc. Students.
- Worked as presiding officer & vote counting member for Senate election of Dr. BAMU, Abad (on 08/05/2011 & 09/05/2011)
- Life member of Indian Chemical Society , Kolkatta
- Life member of Bulletin of catalysis society of India (Since 2013)
- Life member of Society for material chemistry of India (Since Nov 2013)
- Elected as Ordinary council member of Indian chemical society (2014-17)
- Member of syllabus revision committee for M. Sc. I to IV semester Inorganic chemistry
- Department committee member , purchase committee
- IQAC Department coordinator since 2013 -2019 of Dept of Chemistry , Dr. BAMU, Aurangabad
- NAAC committee member , Department of Chemistry , Dr. BAMU, Aurangabad
- Worked as Presiding officer for Loksabha Election 2014.
- Coordinator for Campus interview, Lupin Lab Aurangabad & Maylan Pharmaceutical ltd, Aurangabad for 2014

- Refresher Course Coordinator in Chemistry/ Chemical technology/ pharmacy 05th – 25th June 2014
- Chair person for session – Pre Science Congress 30,31 Dec 2014
- Campus interview organized on 16 Jan 2015 by E-Solve Ltd Pune
- Campus interview organized on 04 Feb 2015 by Mylan India Ltd, Aurangabad
- Coordinator, Pre Ph. D course work in chemistry-2016 May- 2016- November 2016
- Expert for Avishkar -2016, North Maharashtra University, Jalgaon on January 12, and 13 2017
- BOS member in chemistry since 2017, Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad
- BOS Member in chemistry Since 2017, School of Chemical Science, Kavyatri Bahinabai Chaudhari North Maharashtra University Jalgaon
- BOS member in Chemistry since June 2019, Mullaji Jaitha College (Autonomous), Jalgaon
- BOS Member in chemistry Since 2023, Kavyatri Bahinabai Chaudhari North Maharashtra University Jalgaon
- **Management Council Member**-2022-23, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajinagar
- Worked as Zonal officer for Loksabha Election 2024.

4. Research Guidance :

- Number of students awarded Ph. D. degree : 13
- Number of students have submitted Ph. D. thesis : 00
- Number of students working for Ph. D. degree : 07
- Mr. D. S. Wankhede (2006), Dr. S. B. Rathod (2010), Mr. D. T. Tayde (2012), Mr. G. T. Pawar (2014) - received young scientist award in the Annual convention of Chemists conferences of Indian chemical society, Kolkatta

i). List of research students worked/ working for Ph. D. degree in chemistry.

Sr.No.	Name of the student registered	Brief Title of Research	Date of Registration	Date of award of degree
1.	Mr. D. S. Wankhede	Studies on thermodynamic properties of liquid-liquid systems.	July-2003	17/02/ 2007
2.	Mr. K. N. Vidhate	Synthesis of new extractants and	July-	29/06/ 2009

		their applications.	2004	
3.	Mr. L. S. Gadekar	Modification characterization and applications of naturally occurring molecular sieves.	July-2006	20/05/ 2010
4.	Mr. A.B. Gambhire	Synthesis, characterization and catalytic potency of some mixed metal / nonmetal oxides.	July-2004	22/06/ 2010
5.	Mr. S. B. Rathod	Novel synthesis of mixed metal oxides and their applications.	July-2006	18/12/ 2010
6.	Mr. S.S. Katkar	Studies on the structural modifications of zeolite and their applications.	Dec.-2007	24/01/ 2011
7.	Mr. A.A. Yelwande	Deposition of nanocrystalline materials on inorganic porous composites and their applications	July-2009	09/11/2012
8.	Mr. M. E. Navgire	Preparation, characterization and application of inorganic nanocrystalline composite materials.	Dec. 2008	09/02/2013
9.	Mr. Ganesh T. Pawar	Comparative studies on catalytic properties of natural and synthetic zeolites	July 2013	26/12/2017
10.	Mr. D. T. Tayde (UGC- JRF)	Synthesis, characterization and catalytic application of heterogeneous catalysts	June 2011	08/05/2018
11.	Mr. R. R. Magar	Synthesis, characterization and catalytic applications of zeolites	June 2012	11/09/2018
12.	Mr. Sachin P. Gadekar	Development of transition metal containing zeolite framework of silicate and their catalytic applications.	Dec. 2014	29/05/2019
13.	Ms. Nilam Dhanraj Bansode	Studies on synthesis , characterization and catalytic application of ceria based solid heterogeneous catalyst for organic transformation	Dec. 2014 to 2017 ABR to mkl June 2017	17/07/2023
14.	Smt. Vaishali Nagorao Rathod	Studies on the synthesis of metal organic framework of dicarboxylate derivatives containing transition/lanthanides elements.	July 2013	
15.	Ms. Trupti Ulhas Ramtake	Synthesis, characterizations and DFT studies of some heterocyclic compounds	Dec. 2014	

16.	Mr. Dnyaneshwar Purushottam Gholap	Synthesis, characterization and application of green Lewis acid as catalyst in organic transformations	June 2018	
17.	Mr. Ramdas Narayan Huse	Studies on the preparation and properties of photoactive mixed metal oxides	June 2018	
18.	Ms. Bhavna Shirish Battula	Synthesis, characterizations and computational studies of benzothiazole derivatives	Nov-2021	
19.	Ms. Aarti Venkat Belambe	Synthesis, characterizations and computational studies of triazine derivatives	Nov-2021	
20.	Ms. Rohini R. Suradkar	Synthesis, characterizations and density functional theoretical studies of imidazole derivatives	Nov-2021	

ii). Experimental Skills :

- Experience in all aspects of techniques for isolation, separation, purification of products.
- Expertise in semi-micro Inorganic analysis.
- Analysis of Inorganic material by FTIR, XRD, SEM, EDS, NH₃-TPD, XPS
- Analysis of organic FTIR, NMR
- Handling of sophisticated instruments FTIR, densitometer, AVS-350 Viscometer, UV-Visible Spectrophotometer and High temperature furnace, High pressure Autoclave, Gaussian 09 software

iii). Major Research Projects :

Title of the Project	Project No.	Name of the Funding Agency	Duration	Amount sanctioned (Rs.)
Synthesis, Modification, Characterization Catalytic applications of Zeolites for Organic chemical Transformations	F.No.43-184/2014/(S R) , MRP-MAJOR-CHEM-2013-15031-(OBC) Dated 27/07/2027	UGC- MRP	1/07/2015-30/06/2018	6.31 Lakhs

iv). **Google scholar** (date: 30/04/2024)

Citation : 2420

h-index : 29

i10-index : 63

5). List of Publications :

Sr. No.	Title. Authours, Vol. Page No, Year	Name of Journal	ISSN/ ISBN No.	Impact factor
1.	A rapid synthesis of quinoxalines by using Al ₂ O ₃ -ZrO ₂ as heterogeneous catalyst P.B. Thombre, S.A. Korde, S.S. Dipake, A.S. Rajbhoj, M.K. Lande , S.T Gaikwad; 53 (19) , 1623-1636, 2023	<i>Synthetic Communications</i>	1532-2432	1.937
2.	Water compatible silica supported iron trifluoroacetate and trichloroacetate: as prominent and recyclable Lewis acid catalysts for solvent-free green synthesis of hexahydroquinoline-3-carboxamides D.P. Gholap, R Huse, S . S. Dipake, M.K. Lande 13 (34) , 23431-23448, 2023	<i>RSC advances</i>	2046-2069	4.036
3.	Hydrothermal Synthesis of In ₂ O ₃ -SiO ₂ as Recyclable Mesostructured Catalyst Utilized for 2,3-Dihydrophthalazine-1,4-dione (DHP) Derivatives Tayde, D.Gawai, U., Nikam, R., Ingale, V. Lande, M. D. T. Tyde, D. Gawai, R. Nikam, V. Ingle & M. K Lande 35(2) , 507–512, 2023	<i>Asian Journal of Chemistry</i>	0975-427X	0.158
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6. Research Programme, Work summary and Plan of Teaching

i). Recent research work plan

- Heterogeneous Catalysis : Natural and synthetic zeolites, Mixed metal oxides as catalyst for organic transformations
- Metal organic frameworks
- DFT studies of chemical compounds using Gaussian 09 software

ii). Plan of Teaching

- Concept of symmetry
- Electronic spectroscopy of transition metal complexes.
- Photoinorganic chemistry
- Basic concepts of zeolites , Characterization and Applications
- Organotransition metal chemistry
- Inorganic chemistry Practical's
- Project works to M. Sc. Inorganic chemistry IV semester students

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