

Name of Faculty: Dr. Preeti Zade(Ph.D.)

Designation: Associate Professor

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Professional Qualification:

- Ph.D in Chemistry, 2012**
University of Mumbai, Mumbai
- Master of Sciences(Chemistry), 1998**
Amravati University, Maharashtra
- Bachelor of Sciences(Chemistry), 1996**
Shivaji Science College, Amravati University, Maharashtra

Short Biodata:

I am working as an Associate Professor at Terna Engineering College, Nerul, Navi Mumbai. I have more than 16 years of teaching experience and have completed my Ph.D in Chemistry. My area of interest and research includes Natural product synthesis, Nanotechnology and Green chemistry. I have published more than 14 research papers in National and International journals and conferences .I have published two books on Engineering Chemistry and one on Environmental Engineering. I have carried out different research projects under the University of Mumbai.

Patents/ Products/ Consultancy:

Products Developed: Nil

Patents:

- A process for the preparation of 4-methoxy -7-H-pyrido[2,3,4-kl]acridine
3598/MUM/2014.
- Synthesis of (±)-2-((decahydro-1,1,4a,6-tetramethyl naphthalene-5-yl)methyl
)benzene-1-4-diol(Hydrogenated Isozonarol) Application no.201721019810.
- Production of biodiesel from Chlorophodogenesis algal species Application No.202121029057.

Consultancy Projects:

1.

Reviewer: Nil

Major Subjects:

Engineering Chemistry-I &II (FE)

Environmental management (BE Sem 8)
Applied Chemistry I and II (FE),
Material Science and Technology (SE Chemical),
Organic Chemistry (FY, SY and TY),
Physical Chemistry (FY& SY),
Inorganic Chemistry (FY&SY).

Citation Analysis:

<https://www.researchgate.net/profile/Preeti-Zade/stats>

List of Publication:

Journal Publications:

1. Synthesis of pyrido[2,3,4-kl]acridines unit ,a building block for some marine alkaloids. Preeti Zade and M.M.V.Ramana, *American International Journal of Research in Formal, Applied and Natural Sciences* (AIJRFANS),ISSN(Print): 2328-3777, ISSN(Online): 2328-3785, ISSN(CD-ROM): 2328-3793, Issue 7, June-August, 2014. Impact Factor: 4.96
2. Synthesis of pyrido[2,3,4-kl]acridines unit via nitrene insertion ” .Preeti Zade and M.M.V.Ramana, *International Journal of Engineering Technology, Managementand Applied Sciences*, August 2014, Volume 2 Issue 3 ISSN 2349-4476. Impact Factor:1.38
<https://www.ijetmas.com/admin/resources/project/paper/f201408091407569171.pdf>
3. Microwave Assisted Synthesis Of Pyrido [2,3,4-kl]Acridines Unit Of Some Marine Alkaloids; Preeti Zade and M.M.V.Ramana, *International Journal of Chemical and Pharmaceutical Analysis* ,October-December 2016,vol-4,Issue-1,ID-1146. Impact Factor: 5.94
4. Microwave Assisted Synthesis Of Pyrido [2,3,4-kl]Acridines via Nitrene Insertion Preeti Zade and M.M.V.Ramana. *International Journal of Innovative Research in Science, Engineering and Technology*. Volume 5, Issue 11, November 2016; ID IJ51111029. Impact Factor: 6.209
5. Recent Advances in Epoxidation of Vegetable oils : Aniket E. Kale, Disha G. Goswami, P. S. Zade, M. B. Mandak: *International Journal of Emerging Technologies and Innovative Research (An International Open Access Journal)* April 2017, Volume 4, Issue 04 ,pp 171-175:JETIR (ISSN-2349-5162: Impact Factor: 5.87,
<http://www.jetir.org/view?paper=JETIR1704042>

6. Production of Biodiesel From Microalgae.: Divya A.,Gauri H., Lokesh A., Suraj H., M.Mandke and Preeti Zade : ,ISSN 23205407 , International Journal of Advance Research,6(2),100-105, DIO10.21474/IJAR01/6414
http://www.journalijar.com/uploads/340_IJAR-21891.pdf
7. Chemical Oceanography: An Insight into an Ocean, Naresh, Abdul, Preeti.S. Zade, Santosh Walke, Manoj B Mandake, *International Journal of Innovative Research in Science, Engineering and Technology*, Vol. 7, Issue 4, April 2018, ISSN(Online): 2319-8753,ISSN (Print): 2347-6710. Impact Factor: 7.089 DOI 10.15680/IJRSET.2018.0704120
http://www.ijrset.com/upload/2018/april/120_18_CHEMICAL.pdf
8. Decolourization of Orange- G Dye using TiO₂ Catalyst ,Kunal P. Pednekar, Gopal Kale, Shrutika Joshi, **Preeti Zade**,. Manoj Mandake
International Journal of Creative Research Thoughts (IJCRT),Volume 6, Issue 1 January 2018 | ISSN: 2320-2882.
9. Advanced Oxidation- The state of art of transforming toxicity into products, Sandeep Zade, Preeti Zade, Pratibha S. Agrawal; *International Journal of Advance and Innovative Research (Conference Special)* ,Volume 6, Issue 2 (III) ISSN 2394 – 7780 April - June 2019,pp 201 – 204.
<https://iaraedu.com/pdf/ijair-volume-6-issue-2-iii-april%E2%80%93june-2019.pdf>
10. An alternative design for anaerobic digestion of food waste: Biogas Production; Yash Gadhade¹, Shubham Mundhe¹, Laukik Parakh¹, Aditya Gadekar¹, Preeti Zade and S.N.Zade. *International journal of basic and applied research*, August 2019 Volume 9 Number 8,ISSN 2249-3352 (P) 2278-0505 (E) pp 106-113 Cosmos Impact Factor-5.960
11. Synthesis of hydrogenated Isozonarol of Hydrogenated Isozonarol via Diels Alder Reaction: A Convergent Approach to ABC Tricyclic Core of Marine Sesquiterpenoids; Preeti Zade ,S.N.Zade, M.M.V.Ramana ;*International Journal of Advances in Science Engineering and Technology*, ISSN(p): 2321 –8991, ISSN(e): 2321 –9009 Volume-7, Issue-3, Jul.-2019.

Conferences and Workshops Publications:

PAPERS PRESENTED IN CONFERENCES:

National Level (06) and International level (03)

1. UGC –SAP sponsored National Conference on “Synthesis and application of novel materials (NCSANM-2010) organized by Department of Chemistry, University of Mumbai during March 4-5, 2010.
2. Prize winner for presenting paper on “A short new route to the synthesis of pyrido [2, 3, 4-kl] acridine unit of some marine alkaloids” at National Conference organized by Birla college of Arts, Science and Comers, Kalyan, Maharashtra.
3. Presented paper entitled – “A novel route to the synthesis of pyrido [2, 3, 4-kl] acridine unit of some marine alkaloids having cyclotoxicity” National conference conducted by Karmaveer Bhaurao Patil college of Arts, Science and Comers, Vashi, Navi Mumbai Maharashtra.
4. International Conference on “New horizon in synthetic and material chemistry (ICSMC-2015) organized by Department of Chemistry, University of Mumbai during Nov 26-28, 2015.
5. National Conference on Recent Trends in Chemistry (RTC-2019) Convergent approach for bicyclic core of marine sesquiterpenoids related to fungi toxic isozornol and isozornanone,14-15 February 2019 organized by Department of chemistry Institute of science ,Mumbai.
6. Advanced oxidation- the state of art of transforming toxicity into Products, National Conference On Innovative Trends in Commerce, Humanities and Sciences(ITCHS-2019) organized by Bharatiya Vidya Bhavan’s Hazarimal Somani College of Arts & Science, Jayaramdas Patel College of Commerce and Management Studies Chowpatty, Mumbai, 20th February 2019.
7. A review on biodiesel and bio derived polymer production from algae: An alternative renewable source, 10th Edition of International Conference on Bioplastics’, which was held on May 29-30, 2019 at Singapore.
8. Synthesis of Hydrogenated Isozonarol via Diels Alder Reaction: A Convergent Approach to ABC Tricyclic Core of Marine Sesquiterpenoids ,2019 IIER 640th International Conference on Chemical and Biochemical Engineering (ICCBCE) Kuala Lumpur, Malaysia ,1st - 2nd June, 2019.
9. ‘Production of an alternative fuel from plastic waste’ In National conference on Recent advances in chemical and allied sciences RACAS-2020 organized by Dept. of Chemistry, B. K. Birla college Kalyan on 18th January, 2020.

POSTER PRESENTED: (05)

- ❖ Presented poster entitled – “A novel route to the synthesis of pyrido [2, 3, 4-kl] acridine unit of some marine alkaloids having cyclotoxicity” in ‘Avishkar-2013’ National science fair

organized by Mumbai University.

- ❖ Presented poster entitled – “synthesis of pyrido [2, 3, 4-kl] acridine unit of some marine alkaloids via nitrene incersion” in ‘Inadian Science Congress2015’ at Mumbai University.
- ❖ Presented poster entitled – “synthesis of pyrido [2, 3, 4-kl] acridine unit of some marine alkaloids via N-arylation” in ‘International conference on Science and Technology: Future challenges & solutions[SCFCS-2016] at University of Mysore,Mysuru, Karnataka, India
- ❖ Poster No. 318, Title “Microwave assisted synthesis of pyrido [2,3,4-kl]acridines unit of some marine alkaloids” poster presentation in the Chemical Sciences Section of the 104rd Indian Science Congress scheduled to be held in Sri Venkateswara University, Tirupati (A.P.) during January 3-7, 2017.
- ❖ Presented poster entitled Convergent approach for bicyclic core of marine sesquiterpenoids related to bioactive zonarol and isozonarol, PreetiZade and M M V Rammana, National symposium on “Bioactive Compounds: Challenges and Opportunities for Chemists” to be held on Friday, June 22, 2018.by Dept. of chemistry Khalsa college ,Matunga Mumbai.

Book published:

1. Engineering Chemistry-I book as per revised syllabus of Mumbai university from academic year 2019-20 for first year engineering by Synergy Knowledgeware publication.

ISBN: 978-93-8335-264-7.

2. Engineering Chemistry-II book as per revised syllabus of Mumbai University from academic year 2019-20 for first year engineering by Synergy Knowledgeware publication.

ISBN: 978-93-8335-264-8.

3. Environmental Management Book as per revised syllabus of Mumbai University from academic year 2019-20 for Eight Semester Engineering as elective subject for all branches by STAREDU solutions publication.

ISBN: 978-93-86765-48-2.

Research and Scholarly Contributions:

- Ph.D. Research:** Nil
- M. E. Research:** Nil
- Guide for The ‘Model Study’ of Health and Environment: Action-Based Learning Programme Conducted by Homi Bhabha Centre of Science Education, TIFR Mumbai.
- Guides Students for Dipex -17 project competition. DIPEX-2017 is the most prestigious and popular state level exhibition-cum- competition of projects and working models of degree and diploma

engineering students, as well as agriculture and PG Science students in the state of Maharashtra and Goa, will be held at H.A. Ground, Pimpri, Dist. Pune during 17th to 20th March 2017.

- As a coordinator conducted **Student Awareness Program** on “**Mosquito Related Diseases and Precautions**” and “**Health Check-Up Camp**” held in the month of July-August 2016 in association with Bharati Vidyapeeth College of Engineering And CIDCO at different schools in Navi Mumbai.

- Mentor for **CSIR - Summer Research Training Program (CSIR - SRTP) 2020 conducted by CSIR-NEIST Jorhat-785006, Assam. Guided 13 students from all over India in July -August 2020.**

Funding Received:

- Principal investigator Minor research project 2017-18 by University of Mumbai.
- Co -investigator Minor research project 2018-19 by University of Mumbai.

Software Tools:

1. Chemdraw

Professional Association:

- Indian Society of Technical Education (ISTE) - Life Member
- Indian Women's scientist association

Experience: 17yrs

1. Associate Professor at Terna Engineering College, Nerul, Navi Mumbai from 1st January 2019.
2. Assistant Professor at Bharti Vidhyapeeth College of Engineering, C.B.D., Belapur, Navi Mumbai from 2004 to 2018.
3. Two years teaching experience at F.G.Naik College of Art's, Science and Commerce, Koperkhairane, Navi Mumbai from 2002-2004.
4. One year teaching experience at Smt. Radhikabai Meghe Vidyalaya Airoli, NaviMumbai from 2001-2002.
5. One year teaching experience at 'Shri Shivaji College of Education', Amravati from 1998-1999.

Responsibilities Handled:

1. Work as Exam coordinator, **NBA coordinator**
2. Member of First Year Engineering Time table Committee, Audit committee, Admission Committee, R&D committee, Cultural activities coordinator, IV organizer, Orientation

program organizer, workshop organizer, PTM coordinator, Pre Engineering program coordinator, Induction Program coordinator.

3. Work as a member for Ph.D. Admission Committee.
4. Work as a Class Advisor of First Year Engineering Division.
5. Paper setter in the Subject Applied Chemistry- I &II Examiner in the Subjects of Applied Chemistry- I and II and Material Science and Technology (rev & old) Semester IV chemical branch. And for Institute level elective subject Environmental management for Semester VIII.
6. Work as a member of syllabus committee for FE revised syllabus of engineering chemistry for academic year 2019-20 approved by AICTE under Mumbai University.
7. Worked as a Departmental NACC coordinator.
8. Worked as a college level IQAC member.
9. Worked as Pre engineering Program Co-ordinator.
- 10. FE online exam coordinator for Dec 2020 exam, March 2021 KT exam, April 2021, August 2021 and March 2022 regular and KT exam.**
- 11. FE exam coordinator for FEB/March 2023 exam.**

Talks/Guest Lectures Delivered:

1. As a resource person in integrated training programme for science teachers at Kendriya Vidyalaya ONGC panel.
2. As a session chair in “Global meet on advance in Design, Material & Thermal Engineering(GMADMT-2018)” at Saraswati college of Engineering, Navi Mumbai
3. Delivered guest lecture on “Polymer and its application in day today life” for Ist year Engineering Students at St.Xaviar Institute of Engineering, Mahim, Mumbai on 19th March 2021.
4. Delivered guest lecture on “Advance Engineering Materials” for IInd year Chemical Engineering Students at Bharati Vidyapeeth College of Engineering, Navi Mumbai on 29th September 2021.

SESSION CHAIR/JUDGE:

1. As a member of syllabus committee in AICTE approved syllabus committee meeting held at K.J. Somaiya college, Sion
2. Mentor for the CSIR –Summer Research Training Program(CSIR/SRTP/2020/NEIST/M/134) during June to August ,2020 coordinated by CSIR-NEIST, Jorhat

3. Faculty co-ordination for Induction program conducted by Maharashtra chamber of commerce industry and agriculture (MACCIA) organized by Scientific Jugad funda on 25 Jan 2021.

Declaration

I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Dr .Preeti Sandeep Zade

Place: Navi Mumbai