

Dr. Mrs. Priya R. Kulkarni

M. Sc. (CHEM.), B. Ed., Ph. D.

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RESUME

1. Personal Details:

Date of Birth	Gender & Marital Status	Nationality	Languages Known
07-07-1971	Female & Married	Indian	Mar., Hin., Eng.

Name before Marriage: **Miss Priya Suresh Deshpande**

2. Academic Record:

Exam. Passed	Name of the Board/ University	Year of Passing	% Scored (Aggregate)	Major Subjects	Remark
*Ph. D. (Chem.)	Title: 'Chemical Modifications of Lipids for Applications in Chemical Industry' North Maharashtra University, Jalgaon.				
B. Ed.	Dr. B. A. Marathwada Univ.	1994	71.6 (716/1000)	Maths, Sci.	I class
M. Sc. (Chem.)	Marathwada Univ.	1993	65.75 (789/1200)	Organic Chem.	I class
B.Sc.	Marathwada Univ.	1991	71.54 (2647/3700)	Botany, Chem., Zoology	I class
H.S.S.C	Aurangabad Board	1988	65.50 (393/600)	Mar.,Eng.,Phy.,Bio Chem., Maths	I class

*Qualified PAT (Ph. D. Aptitude Test) conducted by Pune University in 2005

3. Employment Record:

A. Worked as ADHOC Faculty in the Technical and Applied Chemistry Department, VJTI, Mumbai from July 25, 2019-May 31, 2020.

B. Contract Lecturer (Organic Chemistry) in P.G. Department of Chemistry, M. J. College, Jalgaon from July 2000 to April 2017.

i. Taught the following Courses to M. Sc. (Organic Chemistry): Medicinal Chemistry, Heterocyclic Chemistry, Reaction Mechanism etc.

ii. Worked as a Member of the following Committees at **M. J. College**: Placement Cell; TalentSearch Examination in Chemistry during 2002-2017.

iii. Co-ordinator of “Power Point Presentation Competition in Chemistry”, organized by the Department of Chemistry, M.J. College, Jalgaon.

iv. Co-ordinator of Diploma Course in Analytical Chemistry and Certificate Course in Analytical Chemistry, Department of Chemistry, M.J. College, Jalgaon.

C. Worked as **Visiting Lecturer (Organic Chemistry)** at the **Department of Chemical Technology, North Maharashtra University**, Jalgaon for the first/ second semester of the following Academic Years: 1997-98, 1998-99, 1999-2000, 2000-01, 2004-05, 2005-06, 2006-07.

D. Worked as **Adhoc faculty** at the **Department of Technical & Applied Chemistry**, VJTI, Mumbai for Academic Years: 2019-20, Sem II 2021, 2021-22, 22-23, 23-24.

5. Membership of Professional Organisations:

Life Member, Joint Secretary (2021-23): Oil Technologists' Association of India (OTAI) OTA/LM/299/2013. Member, ZEC, OTAI

Life Member: Society For Industrial Chemistry

6. Research Profile:

a) International Journals: 07, b) National Journal 05,
b) h-index: 04 i10-index: 03 Citations: 149

c) Publications:

- 1) “Developments in Centrifugal Separation Practices in Edible Oil Industry”, P.M. Thombare, **P.R. Kulkarni**, R. D. Kulkarni, *Chemical Business*, 19(11), 73-79, 86 (2005).
- 2) “Synthesis and characterization of Epoxidised Vegetable Oils”, Research Articles by Budding Researchers (Under CPE Programme of UGC), M. J. College, Jalgaon.
- 3) “Catalytic metathesis of unsaturated fatty esters: synthesis and application,” Deshpande Priya & Mahulikar P. P., *International Journal of Advances in Chemical Engineering Technology*, 1 (1) pp 47-54 (2011) ISSN-0976-8513.
- 4) “Epoxidation of mustard oil and ring opening with 2-ethylhexanol for biolubricants with enhanced thermo-oxidative and cold flow characteristics”, R.D. Kulkarni, **P. S. Deshpande**, Sujay U. Mahajan, Pramod P. Mahulikar, *Industrial Crops and Product*, 49,8, 586-592, 2013. IF. 6.49
- 5) “Synthesis of Sucrose–Coconut Fatty Acids Esters: Reaction Kinetics and Rheological Analysis”, **Priya S. Deshpande**, Tushar D. Deshpande, Ravindra D. Kulkarni, Pramod P. Mahulikar, *Ind. Eng. Chem. Res.* 52, 15024–15033, 2013. IF 2.235
- 6) “Synthesis and Characterization of Chemically Modified Epoxidized Mustard Oil for Biolubricant Properties”, Sujay Mahajan, **Priya Deshpande**, Ravindra Kulkarni, Pramod Mahulikar, *International Journal of Applied Engineering Research*, Vol 8, No. 17, 2013, ISSN 0973-4562.(Scopus IPP 0.015, SJR0.127)
- 7) “Acid Catalysed Esterification Reaction: A Green Approach”, Research Articles by Budding Researchers (Under CPE Programme of UGC), M. J. College, Jalgaon, 2014
- 8) “Synthesis and Characterization of Estolide Esters for Tribological Properties”, Sujay U. Mahajan, **Priya R. Kulkarni**, R. D. Kulkarni, P. P. Mahulikar, *International Journal of*

Mechanical and Production Engineering, ISSN: 2320-2092, Volume- 2, Issue-8, Aug.-2014. IF.2.56.

9) “Effect of Different Acid Catalyst on Transesterification of WCO”, Research article by Budding Researchers. ISBN NO. 97881930867-5.

10)“Interfacial analysis and reaction engineering of sucrose ester mediated solution spray synthesis of lead chromate nanorods”, **P S Deshpande**, V J Patil,P. P. Mahulikar, U D Patil, R. D. Kulkarni, *Chemical Engineering and Processing: Process Intensification*, Vol.95, Sept 2015, pages 390-402 IF.2.234

11) “Utilization of oleic acid in synthesis of epoxidized soybean oil based green polyurethane coating and its comparative study with petrochemical based polyurethane” Pavan M Paraskar, Mayur S. Prabhudesai, **Priya S. Deshpande**, Ravindra D. Kulkarni, *Journal of Polymer Research* (2020)27:242. IF. 3.07

12) ‘Microwave-assisted low-cost synthesis of sucrose-soya ester from vegetable oil refinery by-product and its application in toothpaste formulation for oral hygiene’, Yogeshsing N. Rajput, Chetan D. Girase, Rahul P. Kedar, **Priya S. Deshpande**, Ravindra D. Kulkarni, *Journal of Surfactants and Detergents*, 2022 IF. 1.97

d. Conference Presentations:

1. Presented one research paper at ‘Recent Trends in Synthetic Organic chemistry’, Dec. 16 & 17, 2005, School of Chemical Sciences, North Maharashtra University, Jalgaon: “Evaluation of Metathesis Reaction for Chain modification and Functionalisation of lipids for utilisation in organic chemical industry”, **P. S. Deshpande**, R. D. Kulkarni, and P. P. Mahulikar.
2. Attended the National Conferences ‘Analysis and Development of Drug’ at School of Chemical Sciences, on March 15, 2008 and ‘Recent Advances in Polymer Technology (RAPT-09) at Department of Chemical Technology, North Maharashtra University, Jalgaon on Jan. 30, 2009.
3. Presented one research paper at ‘Recent Advances in Polymer Technology (RAPT-09) at Department of Chemical Technology, North Maharashtra University, Jalgaon on Dec. 28 & 29, 2009: “Clay catalysed synthesis & characterization of Dimer Acid”,P. S. Deshpande& P.P. Mahulikar.
4. Attended the national conference ‘Nanostructures and Nanomaterials’ at Department of Chemical Technology, North Maharashtra University, Jalgaon on 19th March 2011.
5. Presented one research paper at University Level Research Oriented Festival Avishkar Dec. 28-29, 2011, North Maharashtra University, Jalgaon. “Oleochemicals: The changing world”, Deshpande Priya, Sujay Mahajan, Kalpana Shimpi.
6. Presented one research paper at National Conference on Recent Trends in Engineering and Sciences, J.T. Mahajan College of Engineering, Faizpur on 04-05 January 2012. “Synthesis of Green Polymer from Vegetable Oil”, Deshpande Priya, P. P. Mahulikar.
7. Presented one research paper at National Conference on Nanomaterials Industrial Polymers and Eco-friendly Coatings- Perspectives and Challenges, NMU, Jalgaon on 18th Feb 2012. “Synthesis of Biodegradable Polymer from Vegetable Oil”, Deshpande Priya, P. P. Mahulikar, R. D. Kulkarni, Sujay Mahajan.
8. Participated in UGC – SAP sponsored National Conference on Nanostructures and Nanomaterials on March 28, 2012. North Maharashtra University, Jalgaon.
9. Deshpande Priya, P. P. Mahulikar, R. D. Kulkarni, Sujay Mahajan, “ Synthesis and Analysis of Epoxidised Vegetable Oil”, presented at, Popular Science and Technology Exhibition, 27-29 Feb. 2012, North Maharashtra University, Jalgaon.

10. Presented one research paper at National Conference on Innovations in Chemistry-Laboratory to Society, 11 Mar. 2013, North Maharashtra University, Jalgaon. "Clay Catalysed Dimerization of Fatty Acids and Oils", Deshpande Priya S., Mahulikar P. P.
11. Presented research paper at National Conference on Environmental and Energy Aspects for Sustainable Development, 15-16 Mar. 2013, SGS Institute of Engineering and Technology, Nanded. "Synthesis and Characterization of Chemically Modified Epoxidized Mustard Oil for Biolubricant Applications". Deshpande Priya S., Mahulikar P. P., Kulkarni R. D., Mahajan S. U.
12. Presented research paper at **International Conference** on "Chemical, Environmental and Bioprocess Engineering" (CEBE - 2013) Organized by "Krishi Sanskriti" on 21st & 22nd December, 2013, Jawaharlal Nehru University, New Delhi
13. Presented one research paper at National conference on (RAAB-2014) Research Avenues and Advances in Biotechnology, Organized by M. J. College, Jalgaon on 30-31 January 2014 "Synthesis and Characterisation of Dimer Acid: A Green Approach" Priya Kulkarni, P. P. Mahulikar, D. T. Nehete.
14. Presented research paper at **International Conference** on Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD-CT-2014) Organized by School of Chemical Sciences, North Maharashtra University, Jalgaon on 6-8 Feb. 2014. "Enhanced Lubrication Properties of Vegetable oils by Oxirane Ring Opening" Priya R. Kulkarni, Sujay U. Mahajan, R. D. Kulkarni and P. P. Mahulikar.
15. Presented research paper at **International Conference** on Global Opportunities for Latest Developments in Chemistry and Technology-2014 (GOLD-CT-2014) Organized by School of Chemical Sciences, North Maharashtra University, Jalgaon on 6-8 Feb. 2014. "Synthesis and Characterization of Estolide Esters for Tribological Properties". Sujay U. Mahajan, Priya R. Kulkarni, R. D. Kulkarni and P. P. Mahulikar.
16. Sujay Mahajan, Priya Kulkarni and R. D. Kulkarni, "Synthesis of Vegetable Oil based Polymers", Popular Science and Technology Exhibition – 2014 catalysed and supported by National Council for Science and Technology Communication, DST, Govt. of India and Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra., University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Feb. 24-26, 2014.
17. Sujay Mahajan, Priya Deshpande, Ravindra Kulkarni, Pramod Mahulikar; "Synthesis and Characterization of Estolide Esters for Tribological Properties", **International conference** on Recent Innovations in Science, Engineering and Technology (ICRISET), Pune organized by IRAJ Research Forum, 29th June 2014.
18. R. D. Kulkarni, Sujay U. Mahajan and Priya R. Kulkarni, Mustard-Estolide Ester Synthesis for Enhancement of Tribological Properties, 69th Annual Convention and **International Conference** on Sustainable Technologies and Futuristic Trends: Oilseeds - Oils Processing and Surfactants & Expo 2014 on November 14-16, 2014.
19. Presented **two papers** entitled "Grindstone Method: A Green Approach for Beignilli Reaction" and "Effect of Different Acid Catalyst on Transesterification of WCO" in National Conference (RACBS-2015) Recent advances in Chemo BioSciences, Organized by M. J. College, Jalgaon on 23th -24th Jan., 2015.
20. **1st prize** in poster presentation in National conference "Recent Advances in Chemical sciences, Technology and Environmental science" on 9th March 2015 at UICT, NMU, Jalgaon.

21. Attended Two Day Symposium on “Smart techniques for smart materials & their application in science and Engineering” in Technical and Applied Chemistry Department, VJTI, Mumbai, India, Dated 3rd & 4th January 2020.
22. Attended webinar on “IPR issues and Patenting” organized by Maharaja Ranjitsing college of professional college, Indore, held on 24 th June 2020.
23. Attended one day national webinar on “Advances in Material Sciences” organized by Dept Chem. M.D. College, Parel, Mumbai, held on 20th May 2020.
24. Attended one day webinar on “Recent Trends and Opportunities in Chemical and Pharmaceutical Industry” organized by Dept Chem. Bhavans College, Mumbai, held on 29th May 2020.
25. Attended the 4th National Symposium SEFCO 2020, organized by CSIR Indian Institute of Petroleum on “Shaping the Energy Future: Challenges and Opportunities” held on 5th June 2020.
26. Attended International webinar on “ Role of surfactants in Hand and Surface Sanitisation in Personal and Homecare Segments” organized by OTAI west zone, held on Dec. 4th and 11Th 2020.

e. Research Projects sanctioned/supervised from different Funding Agencies:

Funding Agency	Title	Period	Amount (Rs. in lakhs)
U.G.C., Delhi - Minor Research	Exploration of Stereochemistry, Process Design, Kinetics and Thermodynamics of Epoxidation & Hydroxylation of Oleochemicals for synthesis and utilization of Multifunctional Derivatives	2008-10	0.80

f. Workshop Participation:

1. Attended state level Workshop on ‘Recent Challenges in Chemistry’ organized by P.G. Dept. of Chemistry, New Arts, Commerce & Science College, Ahmednagar during Feb. 02-04, 2007.
2. Participated in One day workshop on Project, Thesis and Paper writing in Chemistry organised by the School of Chemical Sciences, North Maharashtra University, Jalgaon on March 09, 2012
3. Attended Syllabus framing workshop of T. Y. B.Sc. at M. J. College, Jalgaon on 11/12/2013
4. Attended Syllabus framing workshop of B.Tech. Ist at UICT, NMU, Jalgaon on 17/2/2014
5. Delivered a talk on “Basics of Fluid Viscosity and it’s Measurement” and demonstration on Brookfield Viscometer in two days workshop on Advanced Instrumental Training Programme on 17th and 18th Feb 2014 at M.J. College, Jalgaon.
6. Attended Syllabus framing workshop of M.Sc. II Analytical chemistry at M.J. College, Jalgaon on 21th Jan. 2015.

7. Attended Syllabus framing workshop of M.Sc. II(Sem -III)Organic Chemistry at S.S.V.Ps.College, Dhule on 2th Feb. 2015.
8. Attended Syllabus framing workshop of M.Sc. II (Sem -IV) Organic chemistry at Z. B. College, Dhule on 20th Feb. 2015
9. Delivered a talk on “Brookfield Viscometer” in two days workshop on Advanced Instrumental Training Programme on 25th and 26th Feb 2015 at M.J. College, Jalgaon.
10. Attended workshop on “IMPORTANCE OF DYES & PIGMENTS IN DAY TO DAY LIFE” organized by Shroff S R Rotary Institute of Chemical Technology, Vataria, Ankleshwar., held on June 11, 2020.
11. Attended FDP on “ Video Recording, Editing and Uploading Tools” organized by Sipna college of Engineering & Technology, Amravati, held on 1 June to 3 June 2020.
12. Attended one day webinar on “Recent Trends and Opportunities in Chemical and Pharmaceutical Industry” organized by Dept Chem. Bhavans College, Mumbai, held on 29th May 2020.
13. Attended the 4th National Symposium SEFCO 2020, organized by CSIR Indian Institute of Petroleum on “Shaping the Energy Future: Challenges and Opportunities” held on 5th June 2020.
14. Attended OTAI-WZ organized International Conference FOIC 2023 during 16th to 18th March 23 at Mumbai on “Meeting the Challenges of Energy Efficient Process Innovations & Automation”.

Place: Mumbai

Date:

Priya S. Deshpande

(Dr Priya S Deshpande)