

Dr. Nita Subhash Dhavale (SET, Ph.D.)

Present position

- **Assistant Professor**

Contact Details

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Work Experience

- **Teaching:** 16 years
- **Research:** 12 years
- **Industrial:** 3 years

Personal Profile

I am an Assistant Professor and Course Coordinator with 16 years of expertise in Analytical Chemistry. My academic journey has been driven by a deep commitment to teaching, research, and the advancement of scientific knowledge. Over the years, I have had the privilege of educating and mentoring students at various levels, guiding them in their academic and professional journeys, and equipping them with the tools they need to succeed in both academic and industry settings.

In my role as a Course Coordinator, I oversee the design, implementation, and management of analytical chemistry courses, ensuring that they meet academic standards and provide students with a comprehensive learning experience.

With a strong academic background and hands-on experience in both theoretical and practical aspects of Analytical Chemistry, I continue to explore new ways to bridge the gap between academia and industry.

Course(s) Taught (Only Titles)

1. Advance analytical techniques
2. Separation Techniques
3. Spectroscopic Techniques
4. Extraction techniques and Metallurgy
5. Pharmaceutical chemistry
6. Polymer chemistry
7. Analytical Chemistry Practical courses
8. Bioinorganic chemistry
9. Chemistry of main group elements
10. Nanotechnology

Field of Specialization/Areas of Interests

- **Specialization:** Analytical Chemistry, Polymer chemistry, Pharmaceutical Chemistry
- **Area of Interest:** Polymers, Nano materials, Material science

Education

- **Ph.D. -(Chemistry):** from July 2014 to April 2022
Title of the Thesis: An approach to Synthesis, Characterization and Biological study of some mixed metal complexes
Name of University: Deogiri College, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra
Year of Award- April 2022
- **MH-SET (Chemical Science):** June 2013
- **Master of Science- (Analytical Chemistry):** 2005
University: Department of Chemistry, Pune University
- **Bachelor of Science- (Chemistry):** 2003
K.B.P. College, Pandharpur, Shivaji University

Member of College Committees/ Professional Bodies and Others

College Level: Member of Board of Studies, Member of admission committee, IQAC Member of student progression committee, Member of student mentoring team

Research Publications in National and International Journals

1. **Nita Dhavale**, C. S. Patil, Vijay Tadke and Shridhar Vhankate. (2019). Synthesis, characterization and antibacterial activity of mixed Cobalt- Transition Metals compounds. Current Pharma Research. 10(1), 3594-3604. ISSN: 2230-7842.
2. C. S. Patil, **N. S. Dhavale** and V. B. Tadke. (2019). Synthesis, Characterization and biological activity study of Co-Ni tartrate Complexes. Research Journey. Special Issue 166, 144-148. E-ISSN: 2348-7143.
3. **N. S. Dhavale**, C. S. Patil, S. M. Vhankate, V. B. Tadke, R. P. Pawar and S. S. Pawar. (2018). Synthesis, Characterization and Antimicrobial Activity of Mn-Fe Tartarate composites. International Journal of Scientific Research in Science, Engineering and Technology. 4(3), 61-68. Print ISSN: 2395-1990, Online ISSN: 2394-4099.
4. C. S. Patil, **N. S. Dhavale** and V. B. Tadke. (2017). Investigation of antioxidant and antimicrobial activity of some mixed transition metal complexes. Journal of Medicinal Chemistry and Drug Discovery. 3(2), 45- 53. ISSN: 2347-9027.

5. S. S. Pawar, **N. S. Dhavale**, C. S. Patil, S. M. Vhankate, R. P. Pawar and V. B. Tadke. (2017). Synthesis, Characterization and Evaluation of Biological Activity of Mn-Fe tartrate Complexes. International Journal of Advance Research in Science and Engineering. 6(9), 1540-1547. ISSN (O): 2319-8354, ISSN(P): 2319-8346.
6. C. S. Patil, **N. S. Dhavale**, V. B. Tadke and R. P. Pawar. (2016). Synthesis, Characterization of Novel Mixed Metal Tartrate Complexes and Study of their in vitro Antimicrobial Activity. International Journal of Pharmaceutical Sciences and Research. 7(4), 1524-1534. E-ISSN: 0975-8232, P-ISSN: 2320-5148.
7. C. S. Patil, **N. S. Dhavale**, S. S. Pawar and V. B. Tadke. (2016). In Vitro, antimicrobial activity studies of dicarboxylate ligand and their metal complexes. Journal of Medicinal Chemistry and Drug Discovery. 1(2), 579- 583. ISSN: 2347-9027.
8. **N. S. Dhavale**, S. S. Pawar, V. B. Tadke, R. P. Pawar and C. S. Patil. (2015). Extraction and quantitative determination of Inulin content in some baker products by HPLC. Journal of Medicinal Chemistry and Drug Discovery. Special Issue, 506-514. ISSN: 2347-9027.
9. S. M. Vhankate, S. S. Pawar, S. A. Dhanmane, **N. S. Dhavale**, KiranFulzele, C. S. Patil, R. P. Pawar and V. B. Tadke. (2013). Oxalate Ligand based Synthesis of some Mixed Transition Metal Complexes, their Characterization and Antimicrobial Activity Studies. SRTMU's Research Journal of Science. 2(1), 88-100. ISSN: 2277-8594.
10. **Nita Dhavale**, Gauri Shelar, Renuka Gonte and K. Balasubramanian (2012), Cellulosic composites for effluent waste water treatment, book chapter in application of nanomaterial: electronics, energy and environment, pp 297-304, Bloomsbury publishing India Pvt. Ltd.

Participation in Conferences/Seminars/Symposia/Workshop:

Participation in Conferences

1. Nita Dhavale, C. S. Patil, Vijay Tadke and Shridhar Vhankate, international symposium on „Exploring New Horizons in Chemical Sciences (ENHCS-2019)“ Department of Chemistry, Deogiri College, Aurangabad (MS), India, 10th-12th January 2019.
2. S. S. Pawar, N. S. Dhavale, C. S. Patil, S. M. Vhankate, R. P. Pawar and V. B. Tadke, International conference on „Latest innovations in science, engineering and management“ organized by the International Centre Goa, Panjim, Goa (India), 28th - 30th September 2017.
3. S. M. Vhankate, S. S. Pawar, S. A. Dhanmane, N. S. Dhavale, and V. B. Tadke, National conference on „Advances in Chemical Sciences with Special Reference to Molecular spectroscopy, Material science and Organic Electronics (NCACS – 2014)“ organized by

Department of Chemistry, Fergusson College, Pune, 19th – 20th December 2014.

4. N. S. Dhavale, 5th Bharatiya Vigyan Sammelan „Confluence of traditional and modern science: A new integral vision for development“ organized by VIBHA and Fergusson College, Pune on 11th- 14th May 2017.
5. N. S. Dhavale, annual conference of ICC held at Department of Chemistry, Osmania University Hyderabad on 28th- 30th December 2011.

Workshops/FDP Attended:

1. Three day National workshop on “Experimental Methods in Analytical Electrochemistry and Advanced Chemical Engineering” conducted by Department of Chemical Engineering, Ujjain Engineering College. Ujjain on November, 23 - 25, 2020.
2. Three day National workshop on „Computer assisted instruction” sponsored by SPPU at Fergusson College Pune, 4th to 6th March 2010.
3. FDP on ‘Innovative teaching and learning pedagogy’, organized by Research Foundation of India & RFI-CARE on 23rd to 27th June 2024.
4. FDP on ‘Outcome Based Education and Application of Generative AI in Teaching and Research’, organized by The University of Engineering & Management Jaipur, Rajasthan and Nirmala College, Muvattupuzha, Kerala, on 19th to 28th September 2024.

Seminar Attended:

1. C. S. Patil, N. S. Dhavale and V. B. Tadke, National level seminar and annual convention on „Recent Advancement in Chemistry (RAC-2019)” Analytical Chemistry Teachers and Researchers association held at SBES College of Science, Aurangabad, 10th March 2019.
3. C. S. Patil, N. S. Dhavale, S. S. Pawar and V. B. Tadke., National seminar organized by Analytical Chemistry Teachers and Researchers Association (ACTRA-2016) held at Rajkumwar Mahavidyalaya, Dhawada, Bhokardan, Jalna, 28th February 2016.

Events Organized/Coordinated:

Sr. No	Name of the Event	Name of organizing Institute/ College/University	Nature of contribution	Dates
1	National conference on “Advances in Chemical Sciences with reference to Molecular Spectroscopy, Material Sciences and Organic Electronics”	Fergusson College	Member of organizing committee	2014

Additional Skills/Activities

1. SOEC teacher coordinator in 2021-22.
2. Worked as Quality Control Analyst at Parry Phytoremedies Pvt. Ltd. Pune, from May 2007 to January 2009.
3. Worked as Quality Control Analyst at Deccan Nutraceutical Pvt. Ltd., Pune from November 2005 to April 2007.