

Curriculum Vitae

	Name of the Teacher	: Prof. Dr. D. K. Dalavi
		Head, Department of Chemistry IQAC Co-ordinator Bhogawati Mahavidyalaya, Kurukali
	Designation	: Professor
	Qualification	: M.Sc., SET, Ph.D.
	Email	: dkdalavi@gmail.com

EDUCATIONAL QUALIFICATIONS

Degree	Discipline	Year of Passing	Grade	University
Ph.D.	Chemistry	2018	Awarded	Shivaji University, Kolhapur
SET	Physical Chemistry	2006	Qualified	Savitribai Phule Pune University, Pune
M.Sc.	Physical Chemistry	2004	First Class	Shivaji University, Kolhapur
B.Sc.	Chemistry	2002	First Class	Shivaji University, Kolhapur

MEMBERSHIP IN PROFESSIONAL BODIES/ COMMITTEES

- ❖ Member of Board of Studies, Chemistry and Chemical Engineering, Shivaji University, Kolhapur (**Elective**).
- ❖ IQAC Co-ordinator, Bhogawati Mahavidyalaya, Kurukali.
- ❖ Member of CDC, Bhogawati Mahavidyalaya, Kurukali.

PROFESSIONAL INFORMATIONS

Teaching Experience : 22 years

Designation	Institution	Period of Work (From – to)
Professor	Bhogawati Mahavidyalaya, Kurukali	From 2024 to present
Associate Professor	Bhogawati Mahavidyalaya, Kurukali	2021 to 2024
Assistant Professor	Bhogawati Mahavidyalaya, Kurukali	2007 to 2021
Assistant Professor (Fulltime on Special drive)	Bhogawati Mahavidyalaya, Kurukali	2005-2006
Assistant Professor (Clock Hour Basis)	R. C. Shahu College, Kolhapur DKASC College, Ichalkaranji	2004-2005

DOCTORAL THESES GUIDED

Sr. No	Title of Thesis	Name of the Student	Degree Awarded Year
1	Sensing And Quantification Studies Based On Fluorescent Nanoparticles In Aqueous Medium	Dr. Avinash Ashok Kamble	6th May, 2026

PUBLICATION OF RESEARCH PAPERS IN PEER-REVIEWED JOURNALS :

Sr. No	Title with page Nos.	Journal	ISSN/ ISBN No.	Impact Factor	Whether principal author/ corresponding author / Guide
1.	Fluorescence quenching studies of CTAB stabilized perylene nanoparticles for the determination of Cr(VI) from environmental samples: Spectroscopic approach. 6948-6955	Analytical Methods (RSC)	1759-9679	3.5	Principal author
2.	TNPs as a novel fluorescent sensor for the selective recognition of fast green FCF: a spectrofluorimetric approach. 69371-69377	RSC Advances (RSC)	2046-2069	3.9	Principal author
3.	AIEE active SDS stabilized 2-naphthol nanoparticles as a novel fluorescent sensor for selective recognition of Crystal violet: Application to Environmental analysis.2360-2367	Analytical Methods (RSC)	1759-9679	3.5	Principal author
4.	Cetyltrimethylammonium bromide capped 9-Anthraldehyde nanoparticles for selective recognition of phosphate anion in aqueous solution based on fluorescence quenching and application for analysis of Chloroquine. 31-38.	Journal of Fluorescence	1573-4994.	2.6	Co-author
5.	Selective sensing of Fe ²⁺ ions in aqueous solution based on fluorescence quenching of SDS capped rubrene nanoparticles: application in pharmaceutical formulation. 889-7898.	Analytical Methods (RSC)	1759-9679	3.5	Co-author
6.	FRET Between Riboflavin and 9-Anthraldehyde Based Fluorescent Organic Nanoparticles Possessing Antibacterial Activity. 207-215.	Journal of fluorescence	1573-4994.	2.6	Co-author
7.	Studies on Structural, Optical, Thermal and Electrical Properties of Perylene-Doped p-terphenyl Luminophors. 51-63.	Journal of fluorescence	1573-4994.	2.6	Co-author
8.	Cetyltrimethyl Ammonium Bromide (CTAB) Stabilized Coronene Nanowires for the Fluorimetric detection of CR (VI): Analytical Validation Against Industrial Effluents. 1-26	Journal of Chemical Engineering & Its Applications	2010-0221	0.35	Co-author
9.	Fluorescence-based sensor for selective and sensitive detection of amoxicillin (Amox) in aqueous medium: Application to pharmaceutical and biomedical analysis. 918-923.	Luminescence (Wiley)	1522-7243	3.2	Co-author
10.	Disinfection of Water using Supported Titanium Dioxide Photocatalysts. 819-826	American Journal of Engineering & Applied Sciences	1941-7039	0.42	Co-author

11.	SDS-capped 1-pyrenecarboxaldehyde nanoprobe for selective detection of Cu ²⁺ ion from water samples: Spectroscopic approach. 1883-1891	Luminescence (Wiley)	1522-7243	3.2	Co-author
12.	AIEE Based Fluorescent Organic Nano-Probe For Selective Recognition Of Chloride Ion In Environmental Samples. a211-a218	Journal of Novel Research and Innovative Development	2456-4184	8.76	Principal author
13.	Fluorescence “Off-On” recognition system of Tween-80 stabilized 9-Anthracene Carboxylic Acid Nanoparticles for CN ⁻ : Application to Environmental Analysis g396-g402	Journal of Emerging Technologies and Innovative Research	2349-5162	7.95	Principal author
14	AIEE behaviour of CTAB stabilised PNs for determination of ATP	International journal of food and Nutrition Science.	2320-7876	7.83	Principal author
16.	Mini-Review: Fluorescent Organic Nanoparticles	International journal of food and Nutrition Science.	2320-7876	7.83	Principal author
17	CTAB Capped β -Naphthol Nanoparticles as Ratiometric Fluorescent Sensors for Cr (VI): Application to Environmental Sample	ChemistrySelect (Wiley)	2365-6549	2.3	Corrospounding author

PUBLICATION OF BOOKS

Sr. No.	Title with page nos.	Type of Book International /National / Chapter in Edited Book / Editor of Book by International/ Editor of Book by National Publisher	Publisher & ISBN No.	Principal author / co-author
1.	Incorporation of Nanocarriers as Antimicrobial Agents in Food Packaging. 203-234	International Publishers	Wiley (Scrivener) 9781119819011	Co-author
2	Open Elective Chemistry: Water Analysis	National Publishers	Registrar, Shivaji University, Kolhapur	Principal author

DESIGN OF NEW / REVISED CURRICULA AND COURSES

Sr. No.	Design of new / revised curricula /courses
1.	As a BOS member contributed in designing of B. Sc. I syllabus as per NEP 2020 (NEP 1.0)
2.	As a BOS member contributed in designing of B. Sc. I Physical Chemistry syllabus as per NEP 2020 (NEP 2.0)
3.	As a BOS member contributed in designing of B. Sc. I Open Elective chemistry syllabus as per NEP2020 (NEP 2.0)

4	As a BOS member contributed in designing of M. Sc. I AGPM syllabus as per NEP 2020 (NEP 2.0)
5	As a BOS member contributed in designing of M. Sc. II AGPM syllabus as per NEP 2020
6	As a BOS member contributed in designing of Sugar Technology syllabus as per NEP 2020
7	As a BOS member contributed in designing of Alcohol Technology syllabus as per NEP 2020
8	As a BOS member contributed in designing of M. Sc. I Physical Chemistry syllabus as per NEP 2020 (NEP 2.0)
9	As a BOS member contributed in designing of B. Sc. II Physical Chemistry syllabus as per NEP 2020 (NEP 1.0)
10	As a BOS member contributed in designing of B. Sc. III Physical Chemistry syllabus as per NEP 2020 (NEP 1.0)
11	As a BOS member contributed in designing of B. Sc. III SEC (Chemistry) syllabus as per NEP 2020 (NEP 1.0)
12	As a BOS member contributed in designing of M. Sc. I Research Methodology syllabus as per NEP 2020 (NEP 2.0)

RESEARCH PROJECTS COMPLETED

Sr. No.	Title	Agency	Period	Co-PI	Grant/ Amount (Rs. Lakh)
1.	Preparation of FONPs for fluorescence quenching studies and analytical applications	UGC, WRO, Pune	1 April 2014 to 31 March 2016	Principal Investigator	4.45

PARTICIPATION IN TRAINING PROGRAMMES (Orientation, Refresher Course/FDP/ Short Term course)

Sr. No.	Programme	Period
1	Orientation Course	12/01/2009 to 09/02/2009
2	Refresher Course	11/11/2013 to 1/12/2013
3	Refresher Course	3/7/2017 to 23/7/2017
4	Refresher Course (Online ARPIT)	Nov. 2018 to March 2019
5	Refresher Course (Online ARPIT)	Oct 2019 to Jan 2020
6	Short Term Course	19/10/2020 to 24/10/2020
7	FDP Online	25/05/2020 to 30/05/2020

RESOURCE PERSONS

Sr. No	Title of Lecture / Paper presented / Published	Title	Organized by	Whether (International/ National / State/ Univer.)
1	On syllabus of Applied Physical Chemistry B.Sc.-II	Teachers' Training Programme-2025-Resource Person	MBSK Mahavidyalaya, Kadegaon	University
2	On syllabus of Open Elective BSc II	Teachers' Training Programme-2025-Resource Person	TKK Arts & Commerce College, Nesari	University
3	On syllabus of Physical Practical Chemistry B.Sc.- III	Teachers' Training Programme-2024-Resource Person	Ajara Maha., Ajara	University
4	On syllabus of Open Elective and Physical Chemistry B.Sc.-I	Teachers' Training Programme-2024-Resource Person	KBP College, Islampur	University
5	On FDP on NEP-2020	Resource Person (2024)	KBP College, Islampur	University
6	On FDP on NEP-2020 and Workload Distribution	Resource Person (2024)	DABN AS College, Chikhali	University
7	On NEP-2020 and new structure	Resource Person (2024)	DR Mane, College, Kagal	University
8	On Physical Practical Chemistry B.Sc.-II and Framestructure of NEP-2020	Resource Person (2023)	Dr. Patangrao Kadam Mahavidyalaya, Sangli	University
9	On International Mole Day	Resource Person (2021)	KH College, Gargoti	University
10	On Renewable Energy Sources	Resource Person (2018)	YPS college, Solankur-	University

PAPER PRESENTATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

Sr. No	Title of Lecture / Paper presented / Published	Title of Conference /Seminar etc.	Organized by	Whether (Inter./ National / State/ Univer.)
1	Preparation of organic microcrystals by reprecipitation method	Nanomaterials and Applications -2008	Shivaji University, Kolhapur.	International
2	Size-Dependent Colors and Photoluminescence of Organic Nanoparticles	Synthesis of new materials for Industrial applications	Shivaji University, Kolhapur.	National

3	FRET based Nano probe for Detection of erythrosine dye in food stuff	Advanced synthetic methodologies & functional materials-2009	Shivaji University, Kolhapur.	National
4	A novel fluorimetric method for determination of ATP-induced aggregation of fluorescent PNPs.	Characterization Techniques for PCB analysis-2012	Wadhire College, Saswad	National
5	A novel fluorimetric method for determination of ATP by perylene nanoparticles as a probe	Emerging trends in Chemical Sciences– Nov.2012	Solapur University, Solapur.	International
6	Fluorescence Quenching studies of SDS stabilised Alizarin nanoparticles in presence of Al ⁺⁺⁺	Emerging trends in Chemistry through Green Approach-2013	KWC College, Sangali	State
7	8-Hydroxyquinoline nanoparticles as a fluorescent probe for highly selective and sensitive recognition of mercuric ion: A simplistic synthesis approach and environmental monitoring	Emerging trends and Techniques in Chemistry-2013	YC institute of Science, Satara	National
8	Off-On fluorescent polyanthracene for recognition of ferric ions and fluoride from pharmaceutical and environmental samples	Current Trends in Chemical and Nano-sciences-2014	Shivaji University, Kolhapur.	National
9	CTAB stabilized Coronene nanowires for selective detection of Cr(VI) aqueous Solution based on fluorescence quenching study	Nanomaterials for Sustainable Green Technology on 5-6 Jan., 2015	KVP College, Dombivli	International
10	Tetracene nanoparticles as a novel fluorescent sensor for selective recognition of fast green FCF	Frontiers in Chemical and Material Sciences (FCMS-2015) on 16-17 Jan., 2015	Shivaji University, Kolhapur.	National
11	Surfactant capped rubrene NPs for selective sensing of Fe ⁺⁺ aq. Solution based on FL Quenching	Frontiers in Chemical and Material Sciences (FCMS-2015) on 16-17 Jan., 2015	Shivaji University, Kolhapur.	National
12	Synthesis, Characterization and photophysical studies of phthalocyanine nanoparticles in aqueous media	Emerging Trends in Basic & Applied Sciences on 10 March 2015	KH College, Gargoti	International
13	Importance of Cooperative learning in Higher Education	Enhancing Quality Education & Environmental	AD College, Hatkanangale	National

		Consciousness through IQAC in colleges on 2015		
14	Teaching–Learning in Higher Education	Teaching –Learning Evaluation : Facts & Expectations on-2015	GKG Kanya Maha, Jaysingpur	National
15	Fluorescence resonance energy transfer based Nano probe for detection of erythrosine dye in food stuff	Application of Chemical & Material Science for sustainable Development 20 Feb., 2016	Chemistry Department, SUK	National
16	Fluorimetric estimation of fluorescein sodium from ophthalmic drug sample using anthracene nanoparticles based on FRET studies	National conference on Innovative Research in Chemical Sciences on 1 & 2 Feb., 2017	Dept., of Chemistry, SUK	National
17	AIEE behavior of CTAB-PNPs for determination of AMP from Pharmaceutical formulations: spectroscopic approach	National conference on Emerging Trends in Chemical & Physical Sciences on 14 Feb., 2017	YCW Mahavidyalaya, Warananagar	National
18	New Fluorescent ‘off-on’ behavior of 9-anthracene carboxylic acid Nanosensor for recognition of hydroxocobalamin and CN–ion	International conference on Innovative Research in Science & Technology on 7-8 Nov., 2017	GKG College, Kolhapur	International
19	AIEE active CTAB-DPC as a novel fluorescent sensor for selective recognition of Cd ⁺⁺	Emerging Trends in Pharmaceutical Chemistry-2020	DBF Dayanand College of AS, Solapur	National
20	AIEE active SDS-ANPs as a novel fluorescent sensor for selective recognition of Al ⁺⁺⁺	Current Scenario in Chemical and material Sciences-2024	DABN AS College, Chikhali	National
21	SDS stabilized 2-naphthol nanoparticles as a novel fluorescent sensor for selective recognition of crystal violet.	Future Perspectives and innovative Trends in Chemical Sciences-2024	Devchand College, Arjun Nagar	National

