



AISSMS
COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय
Accredited by NAAC with "A+" Grade



Department of First Year Engineering

Faculty Profile

Prof.(Dr) Vrashali S. Kalyani

Post. Doc. Ph.D.

(Chemistry)

Assistant Professor

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<https://scholar.google.com/citations?hl=en&user=bfBYcPMAAAAJ>

<https://www.linkedin.com/in/vrashali-kalyani-99965420/>



ResearchAreas/ Areas of Interest

Hot Guest Chemistry, Photochemistry, Supramolecular chemistry

Personal Details

Date of Birth : 31/ 01/

Domicile: Maharashtra

Gender : Female

Blood Group: B+ve

Contact Details: D-401, Eves Garden, Keshav Nagar Mundhwa, Pune.

Academic Background

S. NO.	Qualification	Specialization	University	Class/ Grade	Year of Passing
1	Ph.D.	Chemistry	Savitribai Phule Pune University, Pune.	--	Dec 2016 (Declaration) Thesis Submission(Dec 2016)
2	M.Sc	Oganic Chemistry.	Swami Ramanand Tirth Marathwada University, Nanded	1 st	2001
3	B.Sc.	Chemistry	Swami Ramanand Tirth Marathwada University, Nanded.	Distinction	May 1999
4	Post Doc.	Host Guest Chemistry	Santiago de Compestela University, Spain.	-	April 2016

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	13 years	06
2	Research	07 years	00
3	Industry	-	-
4.	Others	--	--
Total		19	0

Subjects/Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Engineering Chemistry	UG	FE	25
2	Chemistry I	UG	SE (Chemical)	03
3	Chemistry II	UG	SE (Chemical)	03
4	Indusrtrial Chemistry	UG	UG (B.Sc. FY & SY) (Industrial chemistry)	03

5	Organic Chemistry	PG	PG (M. Sc. FY org. Chemistry)	02
6	Inorganic Chemistry	UG	UG B.Sc.FY& SY(Chemistry)	03

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	01	11	00	11	11
Conferences	05	00		05	--

Publication Details (Journals)

S · N o	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
1	Malkhede pH Dependent Self-Assembly of Pyrene Armed Calix[4]arene: Interference and Complexation by <i>p</i> -Sulfonatocalix[6]arene	Vrashali S. Kalyani* , Sharadchandra T. Gawhale, Nilesh V. Rathod and Dipalee D. Malkhede	Chemistry Select 2019 , 4, 8542-8549.	DOI: 10.1002/slct.201902363	2365-6549.	Wiley Publication
2	Cyclodextrin-assisted modulation of the photophysical properties and acidity constant of pyrene-armed calix[4]arene	Vrashali S. Kalyani, D. D. Malkhede, J. Mohanty.	<i>Physical Chemistry Chemical Physics</i> 2017 21, 21382-21389.	DOI: 10.1039/c7cp01894k	1463-9076 (print) 1463-9084 (web)	Royal society of chemistry
3	" <i>p</i> -Sulfonatocalix[8]arene and Vitamin C complexation: Assessment of Photophysical, pKa and Antioxidant propert	Vrashali S. Kalyani and Dipalee D Malkhede	<i>J. Inclusion Phenomenon of Macrocyclic Chem</i> 2016 , 87, 3, 1-7.	DOI 10.1007/s10847-016-0689-x	15731111, 13883127	Springer publication

4	Slow solvation dynamics in supramolecular systems based on bile salts: Role of structural rigidity of bile salt aggregates	Jyotirmay Maiti, Vrashali Kalyani , Suman Biswas, Flor Rodríguez-Prieto, and Manuel Mosquera González Ranjan	<i>Journal of Photochemistry and Photobiology A: Chemistry</i> 346, 2017, 17–23. (http://dx.doi.org/10.1016/j.jphotochem.2017.05.040 1010-6030/© 2017	1010-6030	Elsevier publication
5	Molecular-Recognition-Assisted pKa Shifts and Metal-Ion Induced Fluorescence Regeneration in p-Sulfonatocalix [6]arene Encapsulated acridine	Ankita Jadhav, Vrashali S. Kalyani , Nilotpal Barooah, Dipalee D. Malkhede, and Jyotirmayee Mohanty	<i>Chem Phys Chem</i> 2014 , 15, 1–9.	DOI: 10.1002/cphc.201402591	0301-0104	Wiley Publication
6	A Novel interaction of Th(IV) and Zr(IV) with 4-sulfonatocalix[6]arene: Experimental and theoretical investigation	Nilesh Rathod, Karti Joshi, Ankita Jadhav, Vrashali Kalyani , K	<i>Polyhedron</i> , 2017 137, 207-216	http://dx.doi.org/10.1016/j.poly.2017.08.026	978-1-4665-0430-1 ,	Elsevier Publication

		Selvaraj, Dipalee Malkhede				
7	“Investigation of host-Guest complexation of ternary model: <i>p</i> Sulfonatocalix[4]arene-fluorescein- M^{+2}	S. T. Gawhale, N. V. Rathod, Vrashali S. Kalyani , P. K. Singh, R. S. Sapkal, V. S. Sapkal, G. N. Chaodhari, D. D. malkhede	<i>Polyhedron</i> 2020 ,177,114268	https://doi.org/10.1016/j.poly.2019.114268	978-1-4665-0430-1 ,	Elsevier publication
8	The Investigation of cooperative binding between of <i>p</i> -sulfonatocalix[6]arene with Fluorescein and titration metal ion by spectrometrically	S T Gawhale, Snhita patil, Rupali Thorve. Vrashali Kalyani , Dipalee Malkhede	<i>J. Chem. Sci.</i> 2020 , 132:16	https://doi.org/10.1007/s12039-019-1717-3	0974-3626 (print); eISSN: 0973-7103	Springer

9	Graphene Oxide-Based Sorbents Modified with Waste Orange Peel Biochar for Cd (II) Removal from Aqueous Waste Streams	Chandrakan t Ghugare, Nilesh Rathod, Ankita Rao, Jayshri Jadhao, Santosh Chavan, Akash Kubade, Vrashali Kalyani , Arun Patil	SSRN 4414930			Elsevier
10	Hydroxycoumarin encapsulated sulfonatothiacalix [4] arene: ¹ H NMR, steady state fluorescence and theory	Sanhita V Patil, Shridhar P Gejji, Vrashali S Kalyani , Dipalee D Malkhede	<i>Journal of Molecular Liquids</i>	https://doi.org/10.1016/j.molliq.2021.116760	ISSN 0167-7322.	Elsevier
11	Inclusion phenomenon of β -carboline alkaloids with sulfonatothiacalix [4] arene: Photophysical, cytotoxicity and theoretical study	Rupali Thorave, Vrashali Kalyani , Amruta Shelar, Rajendra Patil, Prabhat K Singh, Dipalee D Malkhede	<i>Journal of Molecular Liquids</i> , July 2023 , vol 392 page 123450	https://doi.org/10.1016/j.molliq.2023.123450	SSN 0167-7322	Elsevier

12	Efficient removal of toxic Cd(II) ions from waste streams by a novel modified biodegradable magnetic sorbent	Vrashali S. Kalyani et al	Materials Science, vol 1, Dec avan, Akash V. Kubade2023,100016	https://doi.org/10.1016/j.cino.2023.100016	ISBN-9780080950716.	Elsevier
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Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	A simple technique for activated charcoal preparation from bagasse”	Vrashali S Kalyani, Ashok Gokarn, Y P Patil	2019	65 th annual convention- 2019 (Oct 2019)- Deccan Sugar Technologists’ Association	ISO 9001-2015 certified	Deccan Sugar technology Association (India), DSTA House, Pune
2	Kon Tiki pyrolysis of Agro waste and test for usefulness of biochar to farmers	Ashok Gokarn, A A Yeole, Y P Patil, Vrashali S Kalyani, N kadam	2021	66 th annual convention- 2019 (Oct 2019)- Deccan Sugar Technologists’ Association	ISO 9001-2015 certified	Deccan Sugar technology Association (India), DSTA House, Pune
3	Effect of length of spacer on quenching constant on complexation of pyrene armed Calix[4]arene with metal ions	Vrashali S kalyani	15-16 June 2020	Science & Technology”		S B Patil College of engineering Indapur
4	Curcumin-Loded Phenythyl Isothiocynate Nano Sphere: Preparation stability study, and its implication study for cataract prevention	V S Kalyani et al	July 2023	Indian Journal of Technical Education Vol 46-special issue 2023	ISSN-0971-3034.	AISSMS COE Pune

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.Sc. (PG)	B.E. (UG)
No. of Student guided	-	2	2

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
ISRAP	International	Life	L478
SESSI	National	Life	LM/2586/2021

Patents/IPR Filed/Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	Dr V S Kalyani et al	Design of three phase reactor for recovery of Copor from Waste PCB	2024	Granted	Cbr No -214442

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
1.				

Details of Workshop/STTP/FDP/Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/ International)	Sponsoring Agency

1	Organising committee member or supportive member at Syllabus Implementation Workshop (Revised syllabus 2019), organised by AISSMS IOIT PUNE in July 2019.	FDP	1 day	state	AISSMS IOIT Pune
2	Organizing committee member of Faculty awareness program on “Induction program for First Year Engineering” on 19 July 2019.	FDP	1 day		AISSMS COE PUNE in association with SPPU
3	Organizing committee member of FDP on “Vision-Mission-Goals-PO-CO: Framing, Mapping, Assessment and Attainment” on 10-15 June 2019.	FDP	1 week	State	AISSMS COE PUNE
4	Sub coordinated “Faculty awareness Workshop” on “Induction program For first year engineering” on 19 June 2019	FDP	1 day		AISSMS COE PUNE
5	First year students Induction Program	FDP	2 week		AISSMS COE PUNE

Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/ State/Regional)	Date

Details of Workshop/STTP/FDP/Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	Completed one week FDP on "outcome based education: A step towards excellence" from 11-15 May 2020 .	FDP	11-15 May 20	Govt. college of engineering karad	
2	Attended STTP through ICT mode on EFFECTIVE TEACHING fom 15/07/19 - 19/07/19 organised by National Institute of technical Teacher's Training and reaseach.	FDP	15-19 July 20	State	AISSM IOIT In Association with National Institute of technical Training and research
3	Successfully attended three days online FDP on "Preparing for NBA Accreditation with a case study of Course & Program Outcomes Attainment"	online	28-30 may 2020	State	IQAC of AISSMS IOIT, Pune and Association of Management of Un- aided Engineering College (Mah.)
4	NPTEL: Speaking effectively	online	8 week	National	IIT Madras
5	Completed Faculty Awareness Programme on Outcome Based Education (OBE) and NBA Accreditation" organised by Sinhgad Institute of Technology and Science, Narhe on 7 May 20.	online	1 day	-	Sinhgad Institute of Technology N
6	Completed one week FDP on outcome based education: A step towards excellence" from 11-15 May 2020 organised by Govement college engineering Karad.	online	1 week	-	Govt. College engineering, Karad
7	Attending FDP on: Promoting Quality Culture in Technical Institutions organized by AISSMS COE, pune. 23-05-2020 to 29-05-2020	online	1 week	-	AISSMS, COE Pune
8	Attended Faculty Guidance	FDP	½ day	-	AISSMS, COE

	seminar on “ Project Based Learning”				Pune FE Department
9	One week FDP “Outcome based education : A step towards Excellence”	online	1 week 11-15 May 2020	-	Govt. College engineering Ka
10	National level one week FDP Attended on “ Arduino”	online	1 week (28-4 May 2020	-	Spoken Tutorial IIT Bombay MHRD, ICT
11	FDP on “ <i>Promoting Quality of Technical Institutions</i> ” from 25 29 th May 2020	online	1 week	-	Paramarsh IQA AISSMS COE
12	One week FDP “ NAAC Award programme for Faculty” 8/5/20 to 14/5/20 organised by MMIT	online	1 week (8-14/5/2020	-	MMIT Lohgaon Pune
13	NPTEL: Water society and sustainability	online	4 week	National	IIT Khargpur
14	NITTTR/Swayam: Students Psychology (Elite 80 %) (Feb 2023)	online	8 week	National	NITTTR Chennai
15	NPTEL: Enhancing soft skill and personality (Feb-Apr 2019 with 75%)	online	8 week	National	IIT
16	NPTEL: Basics of Fluorescence Spectroscopy (Dec-2017 with 60%)	online	8 week	National	IIT
17	NPTEL: Speaking Effectively (Feb-April 2020 with 75%)	online	8 week	National	IIT
18	<input type="checkbox"/> NPTEL: Body Language: Key to Success (Dec 2020 with 75%)	online	8 week	National	IIT
19	NPTEL: Biomedical Nanotechnology (Aug 2021: ongoing)	online	4 week	National	IIT
20	NITT-Moud 1; Orientation towards technical education	online	8 weeks	National	NIL

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1.	Two Weeks Induction Program organized according to AICTE Norms from 8th to 17th August 2019.
2	9.4.2 Weeks Induction Program organized according to AICTE Norms from 13th to 20th Jan2020.

Awards Received

S. No.	Awards
1	➤ Awarded with Erasmus Mundus Scholarship Expert III Ph. D. exchange programme 2013 given by European Union, (Head Office: Gottingen University, Germany).
2,	➤ Awarded with Spain –India collaboration Research excellence Scholarship (PEIN) programme 2013 (Host University: Santiago de Compestela University, Santiago, Spain).
3.	➤ Eklavya Scholarship for PG degree given by Maharashtra Government in 2000-01.
4.	➤ Innovation Ambassador of year 2020-21 by IIC ,AICTE,MOE.

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

Dr. Vrashali S. Kalyani

(Name with Signature)