CURRICULUM VITA

1) **Name** : **Dr. Nilam Chandrakant Dige**
2) **Educational Qualification** : M. Sc. Ph. D.
3) **Present Designation** : Assistant Professor
4) **Date of Birth** : 15/05/1991
5) **Contact No.** : **9921520254**
6) **Email ID** : nilu.dige@gmail.com
7) **Date of Appointment** : 14/09/2021
8) **Teaching Experience** : **06 Years**
9) **Date of joining in present college:** 14/09/2021

10) Educational Qualification:

Sr. No.	Examination Passed	University/ Board	Year of Passing	Subject(s)	Class/ Grade
1	Ph. D	Shivaji University, Kolhapur	2018	Chemistry	Distinction
2	M. Sc.	Shivaji University, Kolhapur	2013	Organic Chem.	Distinction
3	B. Sc.	Shivaji University, Kolhapur	2011	Chemistry	Distinction
4	HSC	Maharastra State Board	2008	-	First Class
5	SSC	Maharastra State Board	2006	-	Distinction

11) Total Research Publications : 28

a. Ph.D./Research

Sr. No.	M.Phil./ Ph.D.Thesis Title	Name of The Univ.	Year of award	Name of Guide
1	**Multicomponent reactions as a promising tool in organic syntheses**	Shivaji University, Kolhapur	**2018**	**Prof. D. M. Pore**

b. Research Paper:

Sr. No.	Title of the Paper	Name of Journal	Month and Year of publication	ISBN /ISSN	UGC. No./Impact Factor/ Citation Details
1	Morpholine-Based Novel Ionic Liquid for Synthesis and Characterization of Triazolidine thiones and Their Biological Properties	Catalysis Research	March 12, 2023	2771-490X	Catalysis Research, 2023, 3, doi:10.21926/cr.2301011

2	Novel 1,2,4-triazole analogues as mushroom tyrosinase inhibitors: synthesis, kinetic mechanism, cytotoxicity and computational studies	Molecular Diversity	12 May 2020	1573-501X	Molecular Diversity, 25, 2089–2106 (2021)
3	Novel rhodamine based chemosensor for detection of Hg2+: Nanomolar detection, real water sample analysis, and intracellular cell imaging	Sensors and Actuators B: Chemical	1 December 2020	0925-4005	Sensors and Actuators B: Chemical, 2021, 330, 129308
4	Chelation enhanced fluorescence of rhodamine based novel organic nanoparticles for selective detection of mercury ions in aqueous medium and intracellular cell imaging	Journal of Photochemistry and Photobiology A: Chemistry	19 April 2020	1873-2666	Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112579
5	Design and Synthesis of New Porphyrin Analogues as Potent Photosensitizers for Photodynamic Therapy: Spectroscopic Approach	Journal of Fluorescence	22 February 2020	1573-4994	Journal of Fluorescence,2020, 30, 397-406.
6	Synthesis and characterization of new 4H-chromene-3-carboxylates ensuring potent elastase inhibition activity along with their molecular docking and chemoinformatics properties	Bioorganic Chemistry	30 April 2020	0045-2068	Bioorganic Chemistry,2020, 100, 103906
7	Synthesis of the novel xanthene based analogues: their optical properties, Jack bean urease inhibition and molecular studies	SpectrochmicaActa Part A: Mol. Biomol. Spectroscopy	27 June 2020	1386-1425	SpectrochmicaActa Part A: Mol. Biomol. Spectroscopy (2020) 118667
8	Gallotannin mediated silver colloidal nanoparticles as multifunctional nanoplatform: Rapid colorimetric and turn-on fluorescent sensor for Hg^{2+},catalytic and In vitro anticancer activities	Journal of Luminescence	21 October 2018	0022-2313	Journal of Luminescence, 2019, 206, 624–633
9	Gallotannin functionalized gold nanoparticles for rapid, selective and sensitive colorimetric detection of Ag+ in aqueous medium: Approach to eco-friendly water analysis	Sensors and Actuators B: Chemical,	23 October 2018	0925-4005	Sensors and Actuators B: Chemical, 2019, 281, 720-729
10	A nano sensor for sensitive and selective detection of Cu2+ based on Fluorescein: Cell imaging and drinking water analysis	SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy	9 March 2019	1386-1425	SpectrochimicaActa Part A: Molecular and Biomolecular Spectroscopy, 2019216, 105–116.
11	A potential mediator for photodynamic therapy based on silvernanoparticles functionalized with porphyrin	Journal of Photochemistry & Photobiology A: Chemistry	22 March 2019	1873-2666	Journal of Photochemistry & Photobiology A: Chemistry, 2019, 377, 26–35

12	Synthesis and Studies on Photophysical Properties of Rhodamine Derivatives for Bioimaging Applications	Bulletin of the Korean Chemical Society	02 May 2019	1229-5949	Bulletin of the Korean Chemical Society, 2019, 40, 554-559
13	Facile synthesis of new quinazolinone benzamides as potenttyrosinase inhibitors: Comparative spectroscopic and moleculardocking studies	Journal of Molecular Structure	8 August 2019	1872-8014	Journal of Molecular Structure,2019, 1198, 126915
14	Synthesis and biological evaluation of 1,2,4-triazolidine-3-thiones as potent acetylcholinesterase inhibitors: in vitro and in silico analysis through kinetics, chemoinformatics and computational approaches	Molecular Diversity	08 August 2019	1573-501X	*Mol Divers* 24, 1185–1203 (2020)
15	Ultrasound mediated efficient synthesis of new 4-oxoquinazolin-3(4H)-yl)furan-2-carboxamides as potent tyrosinase inhibitors: Mechanistic approachthroughchemoinformatics and molecular docking studies	Bioorganic Chemistry,	13 August 2019	0045-2068	Bioorganic Chemistry, 2019, 92, 103201
16	Nano molar level chromogenic and fluorogenic sensing of heavy metalions using multi-responsive novel Schiff base as a dual modechemosensor	Journal of Photochemistry & Photobiology A: Chemistry,	12 September 2019	1873-2666	Journal of Photochemistry & Photobiology A: Chemistry,2019, 385, 112089
17	Novel Route for the Synthesis of 5-(4-Hydroxy-2-oxo-2H-chromen-3-yl)-1,3-dimethyl-1H-chromeno[2,3-d]pyrimidine-2,4(3H,5H)-diones	Organic Preparations and Procedures International	11 Jul 2019,	0375-9512	Organic Preparations and Procedures International, 2019, 51, 553 - 565
18	Synthesis and Biological activities of novel aryldiazo substituted heterocycles	Organic Preparations and Procedures International	27 Oct 2019	0375-9512	Organic Preparations and Procedures International, 52: 2, 147-165, (2020)
19	Serendipitous formation of novel class of dichromenopyranopyrimidinone derivatives possessing anti-tubercular activity against M. tuberculosis H37Rv	Medicinal Chemistry Research	12 September 2017	1554-8120	Medicinal Chemistry Research, 2018, 27, 224-233.
20	FRET between Riboflavin and 9-Anthraldehyde based fluorescent organic nanoparticles possessing Antibacterial activity	Journal of Fluorescence	27 October 2017	1573-4994	Journal of Fluorescence, 2018, 28, 207-215
21	Selective detection of Co2+ by Fluorescent Nano Probe:Diagnostic approach for analysis of	Spectrochimic aActa Part A: Molecular and	2 March 2018,	1386-1425	SpectrochimicaA cta Part A: Molecular and Biomolecular

	environmental samples and Biological Activities	Biomolecular Spectroscopy			Spectroscopy, 2018, 198, 136 – 144
22	Intracellular imaging of zinc ion in living cells by fluorescein based organic nanoparticles	Sensors and Actuators B	31 March 2018	0925-4005	Sensors and Actuators B, 2018, 267, 119–128
23	Synthesis, Photophysical Properties and Application of New Porphyrin Derivatives for Use in Photodynamic Therapy and Cell Imaging	Journal of Flourescence,	16 July 2018	1573-4994	Journal of Flourescence, 2018, 28, 871-882
24	Synthesis and Studies of Fluorescein Based Derivatives for their Optical Properties, Urease Inhibition and Molecular Docking	Journal of Fluorescence,	15 September 2018	1573-4994	Journal of Fluorescence, 2018, 28, 1305-1315
25	Dicationic 1,3-Bis(1-methyl-1H-imidazol-3-ium) Propane Copper(I) Dibromate : Novel Heterogeneous Catalyst for 1,3-Dipolar Cycloaddition	Catalysis Letters	07 January 2017	1572-879X	Catalysis Letters, 2017, 147, 301–309
26	Design of task-specific ionic liquid, 1-(ethylaceto acetate)-1-(2-hydroxyethyl) piperidiniumtetrachloroaluminate for multicomponent synthesis of 3,3` -disubstitutedoxindoles	Research in Chemical Intermediates	13 July 2017	1568-5675	Research in Chemical Intermediates, 2017, 43, 7029–7040
27	Green Aspect for Multicomponent Synthesis of Spiro[4H-indeno[1,2-b]pyridine-4,3′-[3H]indoles].	Synthetic Communications	07 Jun 2015	0039-7911	Synthetic Communications, 2015, 45, 2498–2510

c. Patents published: 05

1) Method for preparing fluorescent organic nanoparticle for detection of cobalt(Co^{2+}) ion and fluorescent organic nanoparticle prepared thereby
Patent number: 10-2099240, Korean Intellectual Property Office (KIPO)

2) Novel fluorescein derivative compounds, a process for their preparation and a method for the detection of zinc (Zn^{2+}) ions using the same
Patent number: 10-2177609, Korean Intellectual Property Office (KIPO)

3) Composition for detecting Ag^{+}ion comprising gallotannin capped gold nanoparticle and method for detecting Ag^{+}ion using the same
Patent number: 10-2219181, Korean Intellectual Property Office (KIPO)

4) Method for preparing gallotannin capped silver nanoparticle for detecting Hg^{2+}ion and gallotannin capped silver nano particle prepared thereby
Patent number: 10-2190798, Korean Intellectual Property Office (KIPO)

5) Dual mode chemosensor and heavy metal detection metho using thereof
Patent number: 10-2361653, Korean Intellectual Property Office (KIPO)

12) Professional recognition / award/ fellowship etc.

Sr. No.	Name of Award/ Recognition	Awarding Agency	Date
1	Counselor	IGNOU, HQ, MaidanGarhi, New Delhi-110068.	2021 to 2022
2	BOS member	TC College Baramati	2022-25
3	Basic Science Research (BSR) Fellowships in Sciences	University Grants Commission (UGC), New Delhi, India	2015-2017
4	Dr. R. A. Mashelkar Fellowship	Malhotra Weikfield Foundation Pune, Maharashtra, India	2011-2013

13) E-Content Development:

Sr. No.	Title of Content	Level (UG/ PG / ALL)	Platform	Link of E-Content
1	**Environmental Chemistry**	**UG**	**Classroom**	**https://classroom.google.com/c/MzcxMDE0MzI2NjIz?cjc=s4x7mz3**
2	**Organic Chemistry**	**UG**	**Classroom**	**https://drive.google.com/drive/folders/1y1WvVUKZ6pKgWBnAr0z-ipCNTgs1ulJTR5h84FAMMrtHtUzZtqRRIpejBJHPfgCV7E1xTuA1**
3	**M. Sc. I Organic Chemistry**	**PG**	**Classroom**	**https://drive.google.com/drive/folders/1V-PcabJThHEaDvH9YKncPUGwS1JzOJEiTzUEHHOpdbQKja4XuBiQtBNO6KkNsnimKqZUso1a**

14) Work Experience on Academic Bodies and other:

Sr.No.	Designation/ Position	Duration	Name of Institute / University	Details
1	IQAC Member	2023-2024	TC College Baramati	-
2	BOS Member	2023-2025	TC College Baramati	-
3	resource Person	2022	Dept of Botany and Chemistry, TC College, Baramati.	Hands on training organized by Department
4	KCS Member	2019-2020	Korean Chemical Society	-

15) Any other Attainment:

1) Included Name in AD scientific index for the academic year 2022 and 2023.