TEACHER PROFILE

1. Personal Details

- **Name** : Dr. Dattatray Ramchandra Chandam
- **Present position** : Associate Professor

Address : Department of Chemistry
Bhogawati Mahavidyalaya,
Kurukali
Tal-Karveer, Dist Kolhapur, 416001

- **Contact Numbers** : 7588470253, 9022570232
- **E-mail** : drdrchandam@gmail.com

2. Academic Details

Examination	Discipline/ Specialization	Board/ University	Year of Passing	Class
Ph.D.	Chemistry	Shivaji University, Kolhapur	2016	-
M.Sc.	Organic Chemistry	Shivaji University, Kolhapur	2009	Distinction
B.Sc.	Chemistry	Shivaji University, Kolhapur	2007	Distinction

- **Ph.D. Thesis Title: "Synthesis and Applications of Some New Indole Derivatives"**.

3. Research Specialization:

- **Organic Chemistry:**
  Synthesis of Bioactive Heterocycles, Multicomponent Reactions, Green Organic Synthesis, Use of Magnetic Nanoparticles in organic transformations, Deep Eutectic Solvents

- **Medicinal Chemistry:**
  Anticancer, Anti-inflammatory, Antimicrobial evaluation of Heterocyclic compounds.

4. Research Experience

DOCTORAL FELLOWSHIP

1 Jan. 2011 – 30 Sept. 2011	Department of Chemistry, Shivaji University, Kolhapur	Junior Research Fellow (CSIR, New Delhi).	Synthesis and Applications of Some New Indole Derivatives

5. Teaching Experience: 15 Years

6. Research Guidance

- **U.G.:-** Guidance to graduate student for their project work (2011 to till now).
- **P.G.:-** Guidance to M. Sc (organic chemistry) student for his project work (2023 to till now)
- **Ph. D**:- Guidance to Ph. D. students in the subject of Chemistry since 2020 (3 students working).

Ph.D. student detail: Working: 03

Sr. No.	Name of Student	Ph.D. Subject	Year of passing
1.	Miss Vandana R. Patil	Chemistry	Working
2.	Miss Pradnya A. Dharmadhikari	Chemistry	
3.	Mr. Rahul D. Gharage	Chemistry	

7. Awards/Honors/Recognition:

Year	Name of Awards
2011	**Junior research fellowship (JRF)** (January 2011- September 2011), Council of Scientific and Industrial Research (CSIR) junior research fellowship, New Delhi, India.
2009	**Prof. Dr. M .H. Jagadale award 2009** for securing 1st rank in M.Sc. Chemistry, Shivaji University, Kolhapur.
2009	**Dr. B. M. Sawant Organic Chemistry award 2009.**
2009	**Prof. R. B. Mane award 2009**.
2007	**Prof. Dr. M .H. Jagadale award 2007** for securing 1st rank in B.Sc. Chemistry, Shivaji University, Kolhapur.
2007	**Prof. Dr. M .H. Jagadale award 2007** for securing 1st rank in B.Sc. Chemistry, Shivaji University, Kolhapur.

8. Books / Book Chapters

1. Book Chapter in Text Book "Applied Organic Chemistry" B.Sc. II Chemistry Minor Paper VIII OCHMN-402 Published by Phadake Prakashan, April 2026, ISBN 978-81-998890-5-7

2. Book Chapter in Text Book "Organic Chemistry" B.Sc. II Chemistry Major Paper VIII OCH-402 Published by Phadake Prakashan, January 2026, ISBN 978-81-996932-6-5

3. Book Chapter in Text Book "Organic Chemistry" B.Sc. III Chemistry Paper DSE-E6 Published by Phadake Prakashan, August 2025, ISBN 978-93-48838-00-1

4. Book Chapter in Text Book "Organic Chemistry" B.Sc. I Chemistry Paper II OCH-102 Published by Phadake Prakashan, August 2024, ISBN 978-81-19717-80-4

5. Book Chapter in Text Book "Organic Chemistry" B.Sc. II Chemistry Paper VIII DSC-4D Published by Phadake Prakashan, February, 2024 ISBN 978-81-19717-12-5

6. Book Chapter in Text Book "Organic Chemistry" B.Sc. I Chemistry Paper II OCH-102 Published by Phadake Prakashan, September, 2023, ISBN 978-81-19717-39-2

9. Research Publications:

A) Patents

Device for Synthesis of Anti Breast Cancer Indandion-Coupled Pyrimidine
UK Design Patent, Design number: 6385834,
Registration date: 20 August 2024 Grant date: 29 August 2024

B) Research Articles in International and National Journals

Sr. No.	Title of Research Article	Journal	Volume	Page No.	Year
1	Fe3O4@ Thiosemicarbazide-Cu (II): An efficient magnetically separable catalyst for greener synthesis of 1, 2, 3-triazoles using click reaction	Journal of Organometallic Chemistry	1004	122925	2024
2	An efficient synthesis of pyranopyrimidine derivatives by using glyoxylic acid: L-proline deep eutectic solvent as a novel designer reaction promoter.	Indian Journal of Chemistry	62	339-349	2023
3	Green and highly efficient synthesis of pyrimidine derivatives in a novel glycolic acid: urea-based low transition temperature mixture via C–C and C–O bond formation	Journal of Heterocyclic Chemistry	59	2130-2141	2022

4	MerDABCO-BSA][HSO4] 2: A novel polymer supported Brønsted acidic ionic liquid catalyst for the synthesis of biscoumarins and ortho-aminocarbonitriles	Journal of Molecular Structure	1259	132622	2022
5	Fe3O4@ SiO2-SO3H-DABCO: a novel magnetically retrievable bifunctional catalyst for ecofriendly synthesis of diheteroarylmethanes	Journal of Molecular Structure	1245	130960	2021
6	An Expedient Four Component Synthesis of Substituted Pyrido- Pyrimidine Heterocycles in Glycerol: Proline Based Low Transition Temperature Mixture and Their Antioxidant Activity with Molecular Docking Studies	Polycyclic Aromatic Compounds	42	137-155	2020
7	Synthesis of Novel 4-((Substituted bis-indolyl) methyl)-benzo- 15-crown-5 for the Colorimetric Detection of Hg2+ Ions in an Aqueous Medium	Journal of Heterocyclic Chemistry	56	477-484	2019
8	Low melting mixture glycerol: proline as an innovative designer solvent for the synthesis of novel chromeno fused thiazolopyrimidinone derivatives: An excellent correlation with green chemistry metrics	Journal of Molecular Liquids	283	69-80	2019
9	Thiamine Hydrochloride Catalyzed Synthesis of 1, 2, 4- Triazolidine-3-thiones in Aqueous Medium	ChemistrySelect	4	13071-13078	2019
10	Synthesis and Antimicrobial Activity of Novel Derivatives of 7- aryl-10-thioxo-7, 10, 11, 12–tertahydro-9H-benzo [H] pyrimido[4, 5-b] quinoline-8-one	Journal of Heterocyclic Chemistry	55	692-698	2018
11	Protic Ionic Liquid Promoted One Pot Synthesis of 2-amino-4- (phenyl)-7-methyl-5-oxo-4H, 5H-pyrano [4, 3-b] pyran-3-carbonitrile Derivatives in Water and Their Antimycobacterial Activity	Journal of Heterocyclic Chemistry	55	1010-1023	2018
12	Synthesis of Novel 4-((Substituted bis-indolyl) methyl)-benzo- 15-crown-5 for the Colorimetric Detection of Hg2+ Ions in an Aqueous Medium	Journal of Heterocyclic Chemistry	56	477-484	2018
13	One pot four component sequential synthesis of hexahydroquinoline derivatives in aqueous media via enaminone intermediates: A green protocol	Journal of Saudi Chemical Society	21	S329-S338	2017
14	Sulfamic acid-catalyzed multicomponent synthesis of 7-phenyl- 7, 12 dihydrobenzo (h) pyrido [2, 3-b] naphthydrin-6 (5 H)-one derivatives: a green avenue	Research on Chemical Intermediates	43	2529-2543	2017

15	Sulfamic Acid Catalyzed Atom Economic, Eco-friendly Synthesis of Novel 7-(Aryl)-10-thioxo-7, 9, 10, 11-tetrahedro- 6H-pyrimido-[5′ 4′: 5, 6] pyrano [3, 2-c] quinoline-6, 8 (5H)- dione and its Derivatives	Journal of Heterocyclic Chemistry	54	2206-2215	2017
16	Low melting oxalic acid dihydrate: proline mixture as dual solvent/catalyst for synthesis of spiro [indoline-3, 9′-xanthene] trione and dibarbiturate derivatives	Journal of Molecular Liquids	240	98-105	2017
17	Low transition temperature mixtures prompted one-pot synthesis of 5, 10 dihydropyrimido [4, 5-b] quinoline-2, 4 (1 H,3 H)-dione derivatives	Research on Chemical Intermediates	43	7013-7028	2017
18	Oxalic acid dihydrate: proline as a new recyclable designer solvent: a sustainable, green avenue for the synthesis of spirooxindole	Research on Chemical Intermediates	42	1411-1423	2016
19	Novel dibenzo-18-crown-6 ether functionalized bis- benzimidazole derivatives: synthesis and antifungal evaluation	Research on Chemical Intermediates	42	2449-2459	2016
20	(±)-Camphor-10-sulfonic acid as recyclable and efficient catalyst for the synthesis of some novel coumarin derivatives	Synthetic Communications	46	85-92	2016
21	Oxalic acid dihydrate and proline based low transition temperature mixture: An efficient synthesis of spiro [diindenopyridine-indoline] triones derivatives	Journal of Molecular Liquids	219	573-578	2016
22	Sulfamic Acid-catalyzed One-pot Multicomponent Synthesis of 5-phenyl-2-thioxo-1, 2, 3, 5-tetrahydro-4H-pyrimido [4, 5-d][1,3] thiazolo [3, 2-a] pyrimidin-4-ones	Current Green Chemistry	3	227-234	2016
23	Synthesis of Novel Dibenzo-18-crown-6-ether-Functionalized Benzimidazoles and its Applications in Colorimetric Recognition to Hg2+ and as Antifungal Agents	Journal of Heterocyclic Chemistry	52	468-472	2015
24	Novel crown ether functionalized imidazolium-based acidic ionic liquid catalyzed synthesis of pyrazole derivatives under solvent-free conditions	Research on Chemical Intermediates	41	6843-6858	2015
25	(±)-Camphor-10-sulfonic acid catalyzed atom efficient and green synthesis of triazolo [1, 2-a] indazole-triones and spiro triazolo [1, 2-a] indazole-tetraones	Research on Chemical Intermediates	41	761-771	2015
26	Oxalic acid dihydrate: Proline (LTTM) as a new generation solvent for synthesis of 3, 3-diaryloxindole and chromone based bis	Journal of Molecular Liquids	207	14-20	2015

	(indolyl) alkanes: Green, chromatography free protocol				
27	Multicomponent synthesis of highly functionalized piperidines using sulfamic acid as a heterogeneous and cost-effective catalyst	Indian Journal of Chemistry - Section B	54B	545-550	2015
28	Protic ionic liquids: a lucid, rational tool for synthesis of phthalazinediones, quinoxalines and benzopyrans	Research on Chemical Intermediates	41	10085-10096	2015
29	Synthesis and Cation Recognition Study of Novel Benzo Crown Ether Functionalized Enamine Derivatives	Synthetic Communications	45	1902-1911	2015
30	Target oriented selective synthesis of antibacterial active tyrosinase enzyme inhibitor coumarin core derivatives	Asian Journal of Research in Chemistry	8	511-520	2015
31	Polymer-Supported Sulfonic Acid-Catalyzed Candid Synthesis and Photophysical Properties of 2H-indazolo [2, 1-b] phthalazinetriones	Journal of Heterocyclic Chemistry	52	931-937	2015
32	Synthesis of some novel quinone diimine derivatives of benzo- 15-crown-5 for application in Hg2+ recognition	Luminescence	29	586-590	2014
33	Novel Brønsted acidic ionic liquid ([CMIM][CF 3 COO]) prompted multicomponent hantzsch reaction for the eco- friendly synthesis of acridinediones: an efficient and recyclable catalyst	Catalysis letters	144	949-958	2014
34	Proficient synthesis of quinoxaline and phthalazinetrione derivatives using [C8dabco] Br ionic liquid as catalyst in aqueous media	Journal of Molecular Liquids	179	104-109	2013
35	2-Amino-7, 7-dimethyl-5-oxo-4-[3-(trifluoromethyl) phenyl]-5, 6, 7, 8-tetrahydro-4H-chromene-3-carbonitrile	Acta Crystallographica	69	O417-O418	2013
36	9-(3, 4-Dimethoxyphenyl)-3, 3, 6, 6-tetramethyl-1, 2, 3, 4, 5, 6,7, 8, 9, 10-decahydroacridine-1, 8-dione	Acta Crystallographica	69	O297-O298	2013
37	Glycerol-promoted catalyst-free one-pot three component synthesis of 1H-pyrazolo [1, 2-b] phthalazinediones	Der Pharma Chemica	5	19-23	2013
38	Synthesis of some novel 3, 5-diarylpyrazole derivatives of dibenzo-18-crown-6-ether	Indian Journal of Chemistry - Section B	52B	1352-1356	2013
39	Synthesis of Novel Dibenzo-18-crown-6-ether-Functionalized Benzimi-dazoles and its Applications in Colorimetric Recognition to Hg2+ and as Antifungal Agents	Journal of Heterocyclic Chemistry	52	468-472	2013

40	Crown ether complex cation like ionic liquids: synthesis and catalytic applications in organic reaction	Der Pharma Chemica	4	202-207	2012
41	An efficient synthesis of bis (indolyl) methanes under solvent free condition using Silica supported Chloroacetic Acid as reusable Catalyst	Der Pharmacia Lettre	4	54-60	2012
42	Efficient greener synthesis of 2aryl-1-arylmethyl-1-H benzimidazoles using polystyrene sulphonic acid as a catalyst	Arch. Appl. Sci. Res	3	203-208	2011
43	Synthesis and antibacterial evaluations of (3, 5-dimethyl-1H- pyrazol-4-yl)-phenyl-diazenes	J Chem Pharm Res	2	574-579	2010

10. Conferences Attended/Poster / Oral presentation

1. Attended National Seminar on "**Advanced Synthetic Methodologies and Functional Material" (ASMFM-2009)** organized by Shivaji University, Kolhapur (23rd - 24th December 2009).
2. Attended a seminar on **"Recent Advances in Analytical Chemistry"** organized by Department of Chemistry, A.M. College, Rajapur on 8th – 9th Oct 2010.
3. 5 national Conference on **"Advances in Synthetic Methodologies and New Materials"** organized by Department of Chemistry, Shivaji University, Kolhapur (21st –22nd January, 2011)
4. Attended International Year Of Chemistry 2011 on **"Chemistry in Our Lives"** at Department of Chemistry, Shivaji University, Kolhapur during 28th Feb. – 4th March 2011.
5. Attended **"National Workshop on Green Chemistry"** organized by Department Of Chemistry, Manmohanian Sundarnar University, Tirunelvelli, Tamilnadu (17th – 22nd August 2011)
6. Attended **"National Seminar On Recent Trends in Green Chemistry"** organized by Department of Chemistry, Arts, Science, Commerce College, Indapur, Pune (9th -10th January 2012)
7. Attended and poster presented in **"National Seminar on Recent Trends in Synthetic Chemistry and Nanomaterials"** organized by Department of Chemistry, Shivaji University, Kolhapur (21st - 22nd January 2012)
8. Poster presentation in "**2nd International "Indo-German Symposium"** held at Institute of Chemical Technology, Mumbai on 29th -31st Oct. 2012.
9. Poster presentation in "1st International Conference on **"Recent Advances Chemical Sciences"** held at Department of Chemistry, Arya P.G. College, Panipat, Haryana on 24th -26th Feb. 2013.

10. Poster presentation in **National symposium on Current trends in Chemical Sciences** organized by Department of Chemistry Shivaji University, Kolhapur on 17th -18th January 2014.
11. Poster presentation in **National Conference on New trends in Pest Management** organized by Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur on 31st January 2014.
12. Oral presentation in 4thNational Conference on **"Recent Advances Chemical and Environmental Sciences"** held at Department of Chemistry, Arya P.G. College,Panipat, Haryana on 27th - 28th Feb. 2015.

11. Reviewer of Journals:

Scientific Reports
Journal of Molecular Structure
Journal of Molecular Liquids
Chemical Data Collections
Current Research in Green and Sustainable Chemistry
Heliyon
International Journal of Biological Macromolecules
Next Materials
Radiation Physics and Chemistry
Research on Chemical Intermediates.

Date: 20-06-2026 Dr. D. R. Chandam