# **Faculty Profile**



# **General information**

Name (in Block Letters)	:	DR. Mrs. SHARAYU M. THORAT
Qualification	:	M.Sc., B.Ed., M.Phil., Ph.D.
Department	:	Chemistry (Science)
Current Designation	:	Associate Professor
Date of Joining	:	10/02/2006
Name of Institution	:	Shri Shivaji College of Arts, Commerce and Science, Akola
Phone No.	:	8275836477
Email	:	sharayuthorat09@rediffmail.com

## **Academic Qualification**

Sr.No.	Degree	Name of University/Board	Year	Division
1	Ph.D.	SGB Amravati University	2012	NA
2	M. Phil.	SGB Amravati University	1993	I
3	B.Ed.	SGB Amravati University	1992	I
4	M.Sc.	RTM Nagpur University	1991	I
5	B.Sc.	SGB Amravati University	1988	

# Research degree (s) particulars

Degrees	Title	Date of award
M. Phil.	Influence of ionic strength and dielectric constant on UO2 -	30/10/1993
	Pyrazoline complex equilibria potentiometrically.	
Ph.D.	Synthesis and Characterization of <i>N</i> – lactosylated Nitrogen &	20/10/2012
	Sulphur containing 5 & 6 membered heterocyclic compounds.	

# **Teaching and Research Experience**

Teaching Experience	Experience in Years
Teaching Experience at Degree Level	15 yrs.
Teaching Experience at Post-Graduate Level	15 yrs.
Research Experience	13 yrs.

# Membership of professional bodies

- 1
- The Indian Science Congress Association, Kolkata. Amravati University Chemistry Teachers Association, Amravati. 2
- Nagpur University Teachers Association. 3
- Indian Chemical Society. 4
- Association of Chemistry Teachers (ACT), Mumbai. 5

# Research papers published in journals

Sr. No.	Title with Page No.	Journal	DOI	ISSN / ISBN No.	Whethe r Peer Review ed /Impact factor	No. of Co- authors	Whether you are the main author
1	Synthesis and Antimicrobial activity of <i>N</i> -lactosylated dithiazolidine (hydrochlorides). Pg. No. 797-802	Int. J. Chemical Sci. 8(2), 797-802, 2010		ISSN 0972- 768X	Peer Review ed	01	yes
2	Synthesis and antimicrobial activity of some new lactosylated-1,2,4- dithiazolidine (hydrochlorides), 1759-1762	J. Indian Chem. Soc. 88, 1759-1762 , 2011		ISSN 0019- 4522	Peer Review ed IF 0.150	02	yes
3	Synthesis and biological studies of <i>N</i> -lactosylated 1,2,4-dithiazolidines , Pg. No. 277-278	Indian J. of Heterocyclic Chem. 20, 277-278, 2011		ISSN 0971- 1627	Peer Review ed IF 0.273	02	yes
4	Synthesis and in vitro Antimicrobial activity of 3-aryl-4-S-benzyl-6- phenylimino-2-hepta-O-acetyl-β-D- lactosylimino-2, 3-dihydro-1,3,5- thiadiazine (hydrochloride). Pg. No. 105-109	<i>Syn. Comm.</i> 43 (1), 105-109, 2013	10.108 0/0039 7911	ISSN 0039- 7911	Peer Review ed IF 1.520	01	yes
5	Synthesis and Antimicrobial activity of 4-hepta-O-acetyl-β-D-lactosyl-1- arylidine thiosemicarbazones Pg. No. 1829-1834	Int. J. Chemical Sci. 13(4), 1829-1834, 2015.		ISSN 0972- 768X	Peer Review ed		yes
6	Preliminary Phytochemical screening of Fruits of Xeromphis Spinosa (Thunb.) Keay. Pg. No. 570-573		10.212 76	ISSN 2349- 5332	Peer Review ed GIF	03	Joint author
7	Synthesis and antimicrobial studies of peracetylated <i>N</i> - maltosylated carbamides, Pg. No 185-192			ISSN 2319- 507X	0.676 IF:4.226		yes
8	A methodical study of physicochemical characterization of farmland soil of Markand village located in Nanded District in Maharashtra, India. Pg. No. 473-475	International Journal of Scientific Research in Sciences & Technology (IJSRST), 5(1) 473-475, 2018		ISSN 2394- 8374 (P) ISSN 2394- 0697(O)	Peer Review ed IF:3.241	02	Joint author
9	Synthesis and antimicrobial activity of lactosyl triazino substituted benzothiazole (hydrochlorides). Pg. No. 183-187	Pure and Applied		ISSN 0973- 3876	Peer Review ed	01	yes

10	Silica-Boric Acid (Sio <sub>2</sub> -H <sub>3</sub> BO <sub>3</sub> ): A Mild, Efficient and Reusable Heterogeneous Catalyst for Boc Protection of Amines. Pg. No. <i>1128-1131</i>	International Journal of Current Engineering and Scientific Research (IJCESR), 6(1),1128-1131,2019	10.212 76	ISSN 2393 - 8374	Peer Reviewe d GIF 0.695	02	yes
11	Analysis of Physico- chemical parameters to evaluate drinking water quality in different educational institutes from Akola city Pg. No. 358-361	Research Journey International E- Research Journal, 110 (B), 358-361, 2019 ,		ISSN 2348- 7143	Peer Reviewe d IF 6.261		yes
12	Synthesis and biological studies of some new <i>N</i> -maltosylated carbamide Pg. No.18-22	<i>AJANTA, VIII (I)</i> ,18-22 2019		ISSN 2277- 5730	Peer Reviewe d IF 5.5	02	Joint author
13	An efficient and cost effective synthesis of Acetamides catalyzed by calcium chloride. Pg. No. 1125- 1130	Indian J. Chemistry. 58(B), 1125-1130, 2019.		ISSN 0975- 0983(O)0 376- 4699(P)	Peer Review ed IF 0.592	05	Joint author
14	Bio medical waste management., Pg. No. 256-258	Research Nebula, Special Issue International Online Seminar & Workshop, 256-258, May 2020	10.221 83	ISSN 2277- 8071	Peer reviewed SIF 5.411	01	yes
15	Synthesis of 1,3,4-Thiadiazole Lactosylamino Derivatives as Antimicrobials , Pg.No.71-75		Doc ID: https://c onnectj ournals. com/01 951.20 21.31.7 1	ISSN(Pri nt) 0971- 1627	Peer reviewed	01	yes

## Full papers in conference proceedings

Sr. No.	Title with Page No.	Details of Conference Publications	ISSN / ISBN No.	No. of Co- authors	Whether you are the main author
1	Synthesis and antimicrobial screening of <i>N</i> -lactosylated 1,2,4- thiadiazolidine (hydrochlorides)	National Conference on Innovative Research Trends in Biological Sciences Organised by Deptt. of Life Sciences., Shri Shivaji College, Akola. 08-09 <sup>th</sup> Sept., 2012	ISBN 978-81- 923-621-0- 6	01	Yes

# Research papers presented in conferences / seminars / workshops /conventions

Sr. No.	Title of the Paper Presented	Title of Conference/ Seminar	Organized by	Whether international / national / state / regional / college / or university
1.	Synthesis of 4-phenyl-5-hepta –O-acetyl-β-D-lactosylimino-3- arylimino-1,2,4-dithiazolidines (hydrochloride)	National Conference on Thermodynamics of Chemical and Biological Systems	RTM Nagpur University, Nagpur. 16-17 <sup>th</sup> Octo., 2008	National
2.	Synthesis of <i>N</i> -lactosylated dithiazolidine (hydrochlorides)	Annual Convention of Chemists and International Conference on Recent Advances in Chemistry	Karnatak University, Dharwad. 23- 27 <sup>th</sup> , Nov., 2008	International

3.	Synthesis and Structural Studies of Sugar Heterocycles'	National Conference on Recent Advances in Chemical Research	Osmania University, Hyderabad. 6-7 <sup>th</sup> Feb., 2009.	National
4.	Synthesis and biological studies <i>N</i> -lactosylated 1,2,4-dithiazolidines (hydrochloride)	97 <sup>th</sup> Indian Science Congress	Kerala University, Thiruvananthapuram3 -7 <sup>th</sup> Jan., 2010	International
5.	A facile method for the synthesis of some biorelevant <i>N</i> -lactosylated thiosemicarbazone	98 <sup>th</sup> Indian Science Congress	SRM University, Chennai 3 -7 <sup>th</sup> Jan., 2011	International
6.	A systematic spectroscopic investigation of <i>N</i> -lactosides	International Conference on Chemistry for Mankind: Innovative ideas in Life Sciences	RTM Nagpur University, Nagpur 9 -11 <sup>th</sup> Feb., 2011	International
7.	Synthesis of new class of 3- oxo-2-hepta-O-acetyl-β-D- maltosyl-4-aryl-5-hepta-O- acetyl- β-D-lactosylimino-1,2,4- thiadiazolidine (hydrochlorides)	99 <sup>th</sup> Indian Science Congress	KIIT University, Bhubanesvar 3-7 <sup>th</sup> Jan., 2012	International
8.	Synthesis and antimicrobial Study of <i>N</i> -bromo-bromo-5- arylidine hydrazino-2-hepta- <i>O</i> - acetyl- β-D-lactosylamino- 1,3,4-thiadiazole.	49 <sup>th</sup> Annual Convention of Chemists	NITTTR, Bhopal 12-15 <sup>th</sup> Dec., 2012	International
9.	Synthesis of maltosyl -O-alkyl thiocarbamates	National Conference on Frontiers Areas in Chemistry & Workshop on Quantum Mechanics & Research Methodology	Deptt. of Chemistry, Shri Shivaji Science College, Amravati 23-24 <sup>th</sup> Octo., 2013	National
10.	Synthesis and structural elucidation of maltosyl oxadiazines	50 <sup>th</sup> Annual Convention of Chemists 2013, Chandigarh	Department of Chemistry , Panjab University, Chandigarh Dec. 04-07 <sup>th</sup> , 2013	International
11.	A chemical and physical analysis of soil for monitoring changes in crop productivity	National Conference on Sustainable Chemistry : Frontiers and Challenges [ NCSC- 2015]	Department of Chemistry , Brijlal Biyani Science College Amravati Jan.,30-31,2015	National
12.	Soil Chemical and Physical Analysis as a tool for evaluating Nutrient Availability	International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences	PG Department of Chemistry,RTM Nagpur University, Nagpur Feb.,5-7,2015	International
13.	Analysis of drinking water quality in the Educational Institutes of Akola city	National Conference on	Department of Chemistry,SGB Amravati University Jan.,29-30,2016	National
14.	A study of physical and chemical properties of soil	XXXV Annual National conference of Indian Council of Chemists (ICC),	Haribhai V. Desai College, Pune in association with College of Engineering, Pune Dec. 22-24, 2016	National
15.	Physico chemical characterization of farmland soil from Village Kanchanpur, Akola	National Conference on Recent Advances in chemical Sciences, Technology and Environment	Deptt. of Applied Sciences, North Maharashtra University Jalgaon 30-31 <sup>st</sup> Jan. 2017	National
16.	Synthesis and antimicrobial studies of peracetylated <i>N</i> -maltosylated carbamides	International Conference Advances in Science, Technology and Management IC-ASTM 2017	College of Engineering & Technology , Akola 10 <sup>th</sup> Oct, 2017	International
17.	Physicochemical characterization of soil from irrigated are of Chikhali – A	Proceeding of the 54 <sup>th</sup> Annual Convention of Chemists	Indian Chemical Society, Kolkatta and held at Department of Chemistry,	National

	study AEC (PP- 03)		Uka Tarsadia University, Maliba Campus, Bardoli-394 350, Surat, Gujarat, Dec.23-25, 2017.	
18.	A methodical study of physicochemical characterization of farmland soil of Markand village located in Nanded District in Maharashtra, India.	National Conference on Recent trends in synthesis and characterization of futuristic material in sciences for the development of Society, (NCRDFMDS-2018)	Late. Bhaskarrao Shingane Arts, Prof. Narayanrao Gawande Science and Ashalata Gawande Commerce College, Sakharkherda 13 <sup>th</sup> January 2018	National
19.	An efficient and cost effective synthesis of acetamides catalyzed by calcium chloride Abstract no. ORG (PP-)	UGC sponsored National Conference on Recent Advances in Chemical Sciences	Department of Chemistry and IQAC Shri Shivaji College of Arts, Commerce and Science, Akola February 26 & 27 <sup>th</sup> , 2018	National
20.	Silica-Boric Acid (Sio <sub>2</sub> -H <sub>3</sub> BO <sub>3</sub> ): A Mild, Efficient and Reusable Heterogeneous Catalyst for Boc Protection of Amines	International Conference on Multifunctional Advanced Materials (ICMAM- 2018)	Kamla Nehru Mahavidyalaya, Nagpur and Dharampeth M. P. Deo Memorial Science College, Nagpur in association with Solid State Chemists and Allied Scientists, Jammu 5 <sup>th</sup> to 7 <sup>th</sup> Oct. 2018.	International
21.	Analysis of Physico-Chemical parameters to evaluate drinking water quality in different educational institutes from Akola city	National Conference on emerging Trends in Science (NCETS-2019)	Vidya Bharati Mahavidyalaya, Amravati 1 <sup>st</sup> – 2 <sup>nd</sup> Feb 2019.	National
22.	Synthesis and biological studies of some new <i>N</i> -maltosylated carbamides	National Conference on Recent Advances in Science and Technology(RAISAT)	G. S. G, College, Umarkhed, Dist-Yavatmal 5 <sup>th</sup> - 6 <sup>th</sup> of March 2019.	National
23.	Synthesis, Characterizations of Biobased Bioepoxy Resin from Ricebran Oil and Their Applications in Thin Film PP- 37	International Conference "Asian Network for Natural and Unnatural Materials" (ANNUM VII)	Department of Chemistry , L.D. College of Engineering , Gujarat University ,Ahmadabad 26-27 <sup>th</sup> , Sept. 2019.	International
24.	Biobased acids cross linking of Tamarind Seed Polysaccaride Flims and their Coating Film PP-56	National conference on New Dimension in Chemistry and Chemistry Education and National Convention of Chemistry Teachers (NCCT -2019)	Department of Chemistry, SGB Amravati University ,Amravati 5-6 <sup>th</sup> , Dec. 2019	National
25.	An Efficient Synthesis of Acetamides using Urea as an Effective Organocatalyst under Solvent-Free Conditions PP- 56	National conference on Innovative Research in Sciences and Technology (NCIRST - 2019)	Department of Chemistry , Shri Shivaji College of Science, Amravati 17-18 <sup>th</sup> , Dec. 2019.	National
26.	A FTIR spectroscopic study: Analysis of vibrational spectra of <i>N</i> -linked per- <i>O</i> - benzoylated maltosyl thiadiazines	National conference on recent advances in physical and mathematical sciences (NCRAPMS-2020)	Shri Shivaji College of Arts, Commerce & Science, Akola 18 <sup>th</sup> , January 2020	National
27.	Nuclear magnetic resonance: A powerful tool to study N - <i>Glycosides</i> D-09	National conference on Multidisciplinary Research in Sciences and Technology for Healthy Lifestyle Management (NCMRST-2020)	Shri R. L. T. College of Science , Akola January 24 <sup>th</sup> , 2020	National
28.	NMR Spectroscopy in the	Online National	Department of Chemistry,	National

study of carbohydrates :	conference on Recent	Shankarlal Khandelwal Arts,
Illustrating the structural	Advances in Chemical	Science & Commerce
complication	Sciences (NCRACS-	College, Akola
(OP-17)	2020)	1 - 2 <sup>nd</sup> , May 2020

# Research papers presented in International conferences abroad - Nil

Sr. No.	Title of the Paper Presented	Title	of	International	Organized by
		Conference abroad		abroad	
1					

# Conferences / seminars /workshops /conventions /webinars attended

Sr. No.	Title of Conference/ Seminar	Organized by	Whether international / national / state / regional / college / or university	
1.	Workshop on Radiochemistry and Applications of Radioisotopes	Deptt. of Chem., RTM Nagpur University, 2-10 <sup>th</sup> July,2007	National level	
2.	Workshop on Advanced Analytical Instrumentation	Shri Shivaji Science College, Nagpur. 9- 10 <sup>th</sup> Oct ,2007	State level	
3.	Seminar on Current Trends in Chemical Science	Shri Shivaji College, Akola.28 <sup>th</sup> March.2008	National level	
4.	Workshop on Enriching Textile With Block Printing ETBP-2013	Deptt. of Home Science, Shri Shivaji College, Akola. 27-28 <sup>th</sup> Sept,2013	National level	
5.	Fifteenth Annual Meet and One Day Regional Workshop on Research Methodology	Jagadamba Mahavidyalaya, Achalpur City, Dist. Amravati in association with AUCTA. 20 <sup>th</sup> Oct,2013	University level	
6.	Workshop on Current Trends in Spectroscopic Techniques for Structural Elucidation			
7.	Sixteenth Annual Convention and Seminar on Role of Chemistry in Rural Industrialization	Dr. R.G. Rathod Arts and Science College, Murtizapur Dist. Akola held on 30 <sup>th</sup> Nov. 2014	University	
8.	18 <sup>th</sup> Annual Convention and Seminar on Recent Advances in electrochemistry	Shri R.L .T. College of Science ,Akola in collaboration with AUCTA held on 21 <sup>st</sup> August 2016	Regional level	
9.	One day workshop on "I for Inclusion : Higher Education Module	Shri Shivaji College , Akola in association with Govt. of Maharashtra , RUSA 20 <sup>th</sup> Jan. 2017	Regional	
10.	'Milan' The Alumni Meet-2017(MAM-2017)	Post Graduate Teaching Department of Chemistry, RashtrasantTukadoji Maharaj Nagpur University, Nagpur, 4 <sup>th</sup> February 2017	University	
11.	20 <sup>th</sup> Annual Convention and Seminar on Recent Advances in electrochemistry			
12.	21 <sup>th</sup> Annual Convention & Seminar on Recent Trends in Chemistry Research of AUCTA	S.S.S.K.R. Innani Mahavidyalaya Karanja Lad, on 08 <sup>th</sup> Dec. 2019	University	
13.	One day workshop cum webinar on e-content developement and intellectual Property Rights	The Regional Director, Higher Education , Konkan Region, Panvel & S. D. Arts, V. S. Apte Commerce & M. H. Mehta Science College, Palghar on 27/4/2020.	National level	
14.	Online Certificate Course in Spectroscopic Techniques in Chemistry	Conducted by Dept of Chemistry, Shri R.L.T. College of Science, Akola on 6/5/2020.	National level	

15.	National Online Workshop on Operating Techniques of Scientific Instruments in Laboratory	Dept of Chemistry, Shri R.L.T. College of Science, Akola during 11/5/2020–15/5/2020.	National level
16.	International Online Seminar & Workshop on New Challenges & Opportunities in Physical Education, Recreation, Health and Well Being, Yoga, Psychology, Nutrition, Educational Technology, Environment, Sports Tourism & Multimedia Development – 2020 during 25/5/2020 -28/5/2020.	Shri Shivaji College of Physical Education, Amravati, during 25/5/2020 - 28/5/2020.	International level
17.	National Level Workshop on ICT for Effective Teaching & Learning	Shri R. R. Lahoti Science College, Morshi IQAC & YCMOU Unit on 2/6/2020.	National level
18.	One Week Online Faculty Development Program on E – content development in teaching	Saraswati Kala Mahavidyalaya, Dahihanda, Akola in collaboration with PG Dept. of Computer Science, SGBAU from 4/6/2020 – 10/6/2020.	University
19.	National Online Workshop on Blended Learning	Dept of Educational Technology, SNDT Women's University, Mumbai on 13/6/2020.	National
20.	Online District Level NAAC Awareness Workshop	Shri Shivaji College, Akola in collaboration with RUSA, Maharashtra & Joint Director of Higher Education ,Amravati on 23/6/2020.	Regional
21.	Online National Webinar on Scintillating Chemistry	Association Of Chemistry Teachers on 28/6/2020.	National
22.	Workshop on PBAS – API For Teachers	IQAC & Library, Bhartiya Mahavidyalaya, Amravati on 23/7/2020.	University
23.	Jury Chief in Online National level E- Poster Designing & Slogan Making Competition on "Ozone Layer Protection"	Dept of Chemistry, Mahatma Phule Arts & Science College, Patur, Dist Akola on 16/9/2020.	National

## Invited lectures & chairmanships at national or international conference / seminar -- Nil

Sr. No.	Title of lecture	Title of Conference / Seminar	Organized by	Whether International / National

## Publications other than journal articles (Articles / Chapters published in books)

Book Title	Publisher	ISSN/ISBN No.
A Textbook of Chemistry (3 <sup>rd</sup> Semester B Sc)	Prashant Publications,	ISBN
	Jalgaon	978-93-84228-57-6

### **Research projects**

Title	Funding Agency	Period	Grant (Rs lakh)
Synthesis and Antimicrobial activity	WRO,U.G.C.,	2 Years	Rs.60000/-
of N-Lactosylated Nitrogen and	Ganesh Khind,	(2008-2010)	
Sulphur containing 5 and 6	Pune		
membered Heterocyclic compounds.			
(F47-031/07 Date 29/12/2007)			
Glycosyl 1, 3, 4-thiadiazoles	WRO,U.G.C.,	2 Years	Rs.135000/-
synthesis structure elucidation and	Ganesh Khind,	(2012-2014)	
antimicrobial activity relationship	Pune		
investigation.			
(F47-1983/11 Date 21/02/2012)			

## Research guidance

Sr. No.	Number Enrolled	Degree awarded
M. Phil.	-	-
Ph. D.	01	-

## Patent particulars - Nil

Sr. No.	Patent Title	Date of publications	Whether you are the main author

#### Fellowships and Awards – Nil

Fellowship/ Award	Award conferring Organization	Event Organized by

#### Any other information- Nil

Sr. No.	

#### DR. (Mrs.) Sharayu M. Thorat

Associate Professor Department of Chemistry Shri Shivaji College of Arts, Commerce & Science, Akola