

## Faculty Profile



**Name** : **DR. Mrs . S. M. Thorat**  
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**Phone No. /Cell No.** : 8275836477  
**E-mail** : sharayu\_deshmukh@rediffmail.com  
**Designation** : Assistant Professor  
**Department** : Department of Chemistry  
**Date of birth** : 09/08/1967  
**Area of specialization** : Physical Chemistry  
**Academic qualification** : M.Sc., B.Ed., M.Phil., Ph.D

Examination Passed	Board/ University	Subject/ Specialization	Year of Passing	Division/ Grade/ Merit
Bachelor's Degree	Amravati University	Phy., Chem., Math	1988	I
Master's Degree	Nagpur University	Physical Chemistry	1991	I
M.Phil.	S.G.B. Amravati University	Chemistry	1993	I
Ph.D.	S.G.B. Amravati University	Chemistry	2012	
B.Ed.	Amravati University	Science	1992	I

### Membership of Academic Organizations

- Life member of Indian Science Congress Association (ISCA), Kolkata
- Life member of Amravati University Chemistry Teacher's Association (AUCTA)
- Life member of NUTA
- Life member of Indian Chemical Society (ICC)

### Recognized Ph.D. Supervisor

**Research Experience** : 09 Years

### Book Published in the year 2014

Coauthor A Text book of Chemistry B.Sc. II (Sem. III) Prakash Publications, Jalgaon.

## Research papers published

- Synthesis and Antimicrobial activities of *N*-lactosylated dithiazolidines (hydrochloride). Sharayu M. Thorat and Shirish P. Deshmukh, *Int. J. Chemical Sci.*, 8(2), 797-802, 2010
- Synthesis and Antimicrobial activities of 4-Phenyl-5-hepta-*O*-acetyl- $\beta$ -D-lactosylimino-3-arylimino-1,2,4-dithiazolidines(hydrochloride)  
Sharayu K. Deshmukh and Shirish P. Deshmukh, *J. Indian Chem. Soc.*, 88, 1759-1762, 2011
- 'Synthesis and biological studies of *N*-lactosylated 1,2,4-dithiazolidine', Sharayu M. Thorat and Shirish P. Deshmukh, Jyoti P. Dhumale, *Indian J. of Heterocyclic Chem.* 20, 277-278, 2011
- Synthesis and antimicrobial screening of *N*-lactosylated 1,2,4-thiadiazolidine (hydrochlorides)  
Sharayu M. Thorat and Shirish P. Deshmukh,  
Proceeding of National Conference on Innovative Research Trends in Biological Sciences, 8-9<sup>th</sup> Sept., 2012
- Synthesis and in vitro Antimicrobial activity of 3-aryl-4-*S*-benzyl-6-phenylimino-2-hepta-*O*-acetyl- $\beta$ -D-lactosylimino-2,3-dihydro-1,3,5-thiadiazine (hydrochlorides)  
Sharayu M. Thorat and Shirish P. Deshmukh., *Syn. Comm.*, 43(1), 105-109, 2013

## Seminars/ Conference/ Symposia/ Conferences attended

Sr. No.	Name of the Conference/Seminar/Workshop	Organized by	Date	Paper Presented
1.	National workshop on Radiochemistry and Applications of Radioisotopes	Deptt. of Chem., RTM Nagpur University,	2-10 July, 2007	Participated
2.	State-Level Workshop on Advanced Analytical Instrumentation	Shivaji Science College, Nagpur.	9-10 <sup>th</sup> Octo., 2007	Participated
3.	National Seminar on Current Trends in Chemical Science	Shri Shivaji College, Akola	28 <sup>th</sup> Mar., 2008	Participated
4.	National Conference on Thermodynamics of Chemical and Biological Systems	RTM Nagpur University, Nagpur	16-17 <sup>th</sup> Octo., 2008	Synthesis of 4-phenyl-5-hepta- <i>O</i> -acetyl- $\beta$ -D-lactosylimino-3-arylimino-1,2,4-dithiazolidines (hydrochloride)
5.	Annual Convention of Chemists and International Conference on Recent Advances in Chemistry	Karnatak University, Dharwad	23- 27 <sup>th</sup> , Nov., 2008	Synthesis of <i>N</i> -lactosylated dithiazolidine (hydrochlorides)
6.	National Conference on Recent Advances in Chemical Research	Osmania University, Hyderabad	6 -7 <sup>th</sup> Feb., 2009	Synthesis and Structural Studies of Sugar Heterocycles'
7.	97 <sup>th</sup> Indian Science Congress	Kerala University, Thiruvananthapuram	3 -7 <sup>th</sup> Jan., 2010	Synthesis and biological studies <i>N</i> -lactosylated 1,2,4-dithiazolidines (hydrochloride)
8.	98 <sup>th</sup> Indian Science Congress	SRM University, Chennai	3 -7 <sup>th</sup> Jan., 2011	A facile method for the synthesis of some biorelevant <i>N</i> -lactosylated thiosemicarbazone
9.	International Conference on Chemistry for Mankind: Innovative ideas in Life Sciences	RTM Nagpur University, Nagpur	9 -11 <sup>th</sup> Feb., 2011	A systematic spectroscopic investigation of <i>N</i> -lactosides
10.	99 <sup>th</sup> Indian Science Congress	KIIT University, Bhubanesvar	3-7 <sup>th</sup> Jan., 2012	Synthesis of new class of 3-oxo-2-hepta- <i>O</i> -acetyl- $\beta$ -D-maltosyl-4-aryl-5-hepta- <i>O</i> -acetyl- $\beta$ -D-lactosylimino-1,2,4-thiadiazolidine (hydrochlorides)

11.	National Conference on Innovative Research Trends in Biological Sciences	Deptt. of Life Sciences., Shri Shivaji College, Akola	8-9 <sup>th</sup> Sept., 2012	Synthesis and antimicrobial screening of <i>N</i> -lactosylated 1,2,4-thiadiazolidine (hydrochlorides)
12.	49 <sup>th</sup> Annual Convention of Chemists	NITTTR, Bhopal	12-15 <sup>th</sup> Dec., 2012	Synthesis and antimicrobial Study of <i>N</i> -bromo-bromo-5-arylidine hydrazino-2-hepta- <i>O</i> -acetyl- $\beta$ -D-lactosylamino-1,3,4-thiadiazole .
13.	100 <sup>th</sup> Indian Science Congress	Kolkata University., Kolkata	3-7 <sup>th</sup> Jan., 2013	Participated
14.	National workshop on Enriching Textile With Block Printing ETBP-2013	Deptt. of Home Sciences., Shri Shivaji College, Akola	27-28 <sup>th</sup> Sept., 2013	Participated
15.	Fifteenth Annual Meet and One Day Regional Workshop on Research Methodology	Jagadamba Mahavidyalaya, Achalpur City, Dist. Amravati	20 <sup>th</sup> Oct., 2013	Participated
16.	National Conference On Frontier Areas in Chemistry	Deptt. of Chemistry, Shri Shivaji Sciences., College, Amravati	23-24 <sup>th</sup> Oct., 2013	Synthesis of maltosyl - <i>O</i> -alkyl thiocarbamates
17.	Workshop on Current Trends in Spectroscopic Techniques for Structural Elucidation	Department of Chemistry and IQAC (Under UGC C.P.E. Scheme) Shri Shivaji College of Arts, Commerce and Science, Akola	14 - 20 <sup>th</sup> July 2014	Participated
18.	National Conference on Sustainable Chemistry : Frontiers & Challenges'	Department of Chemistry, Brijlal Biyani Science College, Amravati	30- 31 <sup>st</sup> , Jan. 2015	A chemical and physical analysis of soil for monitoring changes in crop productivity
19.	International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences,	Post Graduate Teaching Department of Chemistry, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, S. K. Porwal College, Kamptee and Institute of Forensic Science Nagpur	5-7 <sup>th</sup> Feb. 2015	Soil Chemical and Physical Analysis as A Tool For Evaluating Nutrient Availability

#### Research Projects Completed / Ongoing

Title of the project ( Minor Project )	Funding agency	Duration	Remark
Synthesis and Antimicrobial activity of <i>N</i> -Lactosylated Nitrogen and Sulphur containing 5 and 6 membered Heterocyclic compounds. (F47-031/07 Date 29/12/2007)	U.G.C., Ganesh Khind, Pune	2 Years (2008-2010)	Completed
Glycosyl 1,3,4-thiadiazoles synthesis structure elucidation and antimicrobial activity relationship investigation. (F47-1983/11 Date 21/02/2012)	U.G.C., Ganesh Khind, Pune	2 Years (2012-2014)	Completed

### Teaching Experience

<b>Courses Taught</b>	<b>Name of the University/ College / Institution</b>	<b>Duration</b>
UG	Bhartiya Mahavidyalaya, Amravati	July 1994 to May 1996
UG	Shri Shivaji College, Akola	10/02/2006 to ---- till date
PG	Shri Shivaji College, Akola	10/02/2006 to ---- till date
Certificate course in Analytical Chemistry	Shri Shivaji College, Akola	Three years
Diploma in Analytical Chemistry	Shri Shivaji College, Akola	Two years

DR. (Mrs.) Sharayu M. Thorat  
Assistant Professor