

## BIODATA



- Name: **Dr. Mrs. Sunita Digambar Shirke**
- Date of Birth: 1-6-1968
- Designation: Assistant Professor
- Qualification: M.Sc. Ph. D. (Chemistry)
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- Educational Qualifications :

Sr. No.	Exam/Degree	Board/Univ	Year of Passing	Subject	% of Marks	Class
1	S.S.C.	Pune	1983		87.14	First with Distin.
2	H.S.C.	Pune	1985		62.78	First
3	B.Sc.	Shivaji Univ.	1988	Chemistry	79.04	First
4	M.Sc.	Shivaji Univ.	1990	Organic Chemistry	64.00	First
5	Ph.D.	Shivaji Univ.	1998	Heterocyclic Chemistry	-	Awarded

- Teaching Experience **UG:17 years** (B.Sc. Chemistry /B.Sc.Biotech.)  
**PG : 3 years** (M.Sc. Chemistry)

### Research work :

- Project Work :**
  - One Minor Research Project (UGC.) completed.(2009-2011)**

Project Title : SYNTHESIS AND ANTIMICROBIAL SCREENING OF  
SOME NEW THIOCARBAMATE DERIVATIVES  
Grant Sanctioned : Rs. 1,55,000/-

- **One Project completed under UGC sponsored Scientific Research Grant (BSR) (2012-13)**  
**Project Title : ISOLATION OF PIPRINE FROM BLACK PEPPER.**
- **One Project submitted under UGC Minor Project (2014)**  
**Title : Microwave Assisted Synthesis And Biological Evaluations Of Some Pyrazole Derivatives.**
- **Research papers : Published- 4.**
  1. Deshmukah M. B., Kharade D. R. and **Shirke S. D.** (1994) A short Synthesis of 2,3,4-Trhydro-dibenzofurans. *Montash Chem.* 125, 971-976.
  2. Deshmukah M. B., Kharade D. R. and **Shirke S. D.** (1993) A Convenient Synthesis of 6,6-Dimethyl, 6a, 7,8,9-tetrahydro-6H-dibenzo-[b,d] pyrans. *Indian Jr. of Chemistry*, 32 B, 1156-1158.
  3. Deshmukah M. B., Kharade D. R. and **Shirke S. D.** (1993) Synthesis of some new Benzofuro-[2, 3-c] pyrazol-3(1H)-ones. *Jr. Indian Chemical Society*, 70, 605-606.
  4. Deshmukah M. B., Deshmukh D. S. and **Shirke S. D.** (1997) Synthesis of some new 2-Thio-quinazolin-4-one derivatives. *Jr. Indian Chemical Society*, 74, 422-423.

**Unpublished Articles being communicated for possible publications :**

1. Synthesis of S-alkyl substituted pyranopyrazolo quinazolinones.
2. Synthesis of Some New 2-(N- aryledenehydrazidomethyl thio)-4 (3H)-Quinazolinones.
3. Synthesis of thiocarbamates in solvent free conditions under microwave irradiations.
4. Snthesis of Benzimidazole derivatives (with J. S. Kshirsagar and R. S. Salunkhe)

- **Research Guidance** : One candidate is working for Ph.D. in Organic Chemistry (since academic year 2013)-Synthesis of Heterocyclic Compounds.
- **Seminar/Workshops attended** :
  - 1) Presented a paper (Poster) in - **International Symposium on Drug Discovery and Process Research (DDPR-2003)**, 23-25, Jan, 2003.
  - 2) Participated in **UGC-sponsored Refresher course in Chemistry** Department of Chemistry, Shivaji University, Kolhapur 27 Oct- 17 Nov. 2003.
  - 3) Participated in Gender Equality workshop Womens' Study Centre, Shivaji University, Kolhapur (28-29 Dec 2006)
  - 4) Participated in **UGC-SAP National Seminar on Synthesis of New Materials for Industrial Applications.-** Department of Chemistry, Shivaji University, Kolhapur February 1-2 2008.
  - 5) Participated and presented a poster in **International Conference on Nanomaterials and Applications.** Department of Chemistry, Shivaji University, Kolhapur 9-11, Dec. 2008
  - 6) Participated in **ONE DAY TRAINING PROGRAMME for B.Sc. III students**, organised by Kolhapur District Chemistry Teachers' Association, Vivekanand College, Kolhapur 20-4-2008.
  - 7) Attended Training programme on **Use of Computer/LCD for effective teaching-learning process.** Vivekanand College Kolhapur , 20-21, March 2009.
  - 8) Participated and presented in a **UGC sponsored National Seminar on Advanced Synthetic Methodologies and Functional Materials-2009**, Department of Chemistry, Shivaji University, Kolhapur during 23-24 Dec. 2009.
  - 9) Participated in a **National Conference on Life Sciences with special reference to Environmental Biotechnology and Biodiversity**, organised by Vivekanand College, Kolhapur during 2-3, Feb. 2010.

- 10) Participated in a **UGC-SAP and DST-FIST sponsored Conference on Advances in Synthetic Methodologies and New Materials symposium**, organised by Department of Chemistry, Shivaji University, Kolhapur during 21-22 Jan. 2011.
- 11) Participated in a **One Day Seminar on Green Chemistry**, organised by Rajarshi Chh. Shahu College, Kolhapur on 5<sup>th</sup> March 2011.
- 12) Participated in a **Workshop on Preparation of Research Project Proposal**, organised by Vivekanand College, Kolhapur on 24<sup>th</sup> March 2011.
- 13) Participated in a **Workshop on Revised Syllabus of B.Sc. II**, organised by Vivekanand College, Kolhapur on 10<sup>th</sup> Aug 2011.
- 14) Participated and presented a poster in a **National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials**, organised by Department of Chemistry, Shivaji University, Kolhapur during 21-22 Jan. 2012.
- 15) Participated in a **Workshop on Problems of Working Women and its remedies**, organised by Rajaram College, Kolhapur on 4<sup>th</sup> Oct. 2012 under Lead College Scheme.
- 16) Participated in a UGC sponsored **National Conference on Recent Trends in Nanotechnology**, organised by Vivekanand College, Kolhapur during 14-15, Dec. 2012..
- 17) Participated in a **Workshop on ‘Mahila Aani Kayada’** organised by Vivekanand College, Kolhapur on 30<sup>th</sup> Jan. 2013 under Lead College Scheme.
- 18) Participated in a **Workshop on ‘Mahila Aani Manavi Kartavye’** organised by Vivekanand College, Kolhapur on 31<sup>st</sup> Jan. 2013 under Lead College Scheme.
- 19) Participated and Presented a poster in a UGC sponsored **National Conference on Frontiers in Chemical and Biological Sciences** organised by PDVP Mahavidyalaya, Tasgaon during 23-24 Sept 2013.

20) Completed with A Grade UGC Academic Staff College, Pune sponsored **Special Winter School in Chemistry** during 11<sup>th</sup> Nov-1<sup>st</sup> Dec. 2013, organised by Department of Chemistry, Shivaji University, Kolhapur.

21) Completed Six-Days **Faculty Development Programme** organized by Department of Education, Shivaji University, Kolhapur during 29-12-2014 to 3-1-2015.

- **Other information :**

B.Sc. Part-III and M.Sc. students were encouraged to undertake mini-projects. Some of the projects that I have guided successfully are as follows:

- Estimation of metals in the currency coin.
- Isolation and spectroscopic analysis of lactose and casein from milk.
- Estimation of Nitrogen from Gobar gas plant by Kjeldahl's method.
- Isolation of  $\beta$ -Carotene in carrots, Manufacturing of Bath Soap in laboratory.
- Isolation and characterisation of Eugenol from Cloves.
- Preparation of Jelly and Observation of Its Consistency.
- To determine Rancidity, Acid value and Iodine Number of Coconut Oil.
- Isolation of Caffeine from Tea leaves.
- Estimation of Invisible Fats from Foods-Potato chips, Chocolates etc.
- Isolation and spectroscopic analysis of lycopene from tomatoes.
- Analysis of Aspirin by conductometric method.
- Isolation of Characterization of Nicotine from Tobacco.
- Isolation and spectroscopic analysis of stigmasterol from Soyabean Oil.
- Multistep preparation of p-Nitroaniline from Aniline.
- Multistep preparation of Benzilamine
- Comparative Study of Synthesis of Benzopyranopyridazine derivatives.

- Study of Synthesis of Schiff's Bases by Conventional method and by  
. Microwave method.