



## Curriculum Vitae

1.	<b>Full Name</b>	Miss Sumayya Isak Inamdar Assistant professor, Vivekanand College, Tarabai Park, Kolhapur. 416003.
2.	<b>Date of Birth</b>	13/05/1989
3.	<b>Languages known</b>	English, Marathi and Hindi
4.	<b>Address for correspondence</b>	Abida Manzil, Indira Colony, Road No. 2, Shivnagar, Islampur, Tal: Walwa, Dist: Sangli. 415409.

### 5. Educational Qualifications: M.Sc. Ph.D. (Physics)

Examination	Main Subjects	Board/ University	% of marks	Year of Passing
S.S.C.	All subjects	Kolhapur Board	64.47	2004
H.S.C.	P.C.M.B	Kolhapur Board	63.54	2006
B.Sc.	Physics	Shivaji University, Kolhapur.	86.73	2009
M.Sc.	Physics	Shivaji University, Kolhapur.	71.12	2011
Ph.D.	Studies on Spray Deposited ZnO Thin Films for Ultraviolet Photodetectors	Shivaji University, Kolhapur.	Awarded in Oct 2015	

**6. Title of Ph.D. Thesis** : Studies on spray deposited ZnO thin films for ultraviolet photodetectors

**7. Research Guide** : Prof (Dr.) K. Y. Rajpure  
Head, Department of Physics  
Shivaji University, Kolhapur ,  
416 004.

**8. Teaching Experience:**

- Teaching exercise for Under Graduate students at Vivekanand College, Kolhapur for last 4 years 8 months.
- Mentor: Post graduate students for final year projects

### 9. Books and article in book:

1. **Nano materials synthesis and characterization (ISBN: 978-93-82563-36-5)**  
Studies on the Synthesis and Characterization of Co-precipitated Nanocrystalline Zn-Pb-O Bulk System
2. ZnO thin films for ultraviolet photodetectors (ISBN : 978-3-659-94168-9, **LAMBERT academic Publishing, Germany**)
3. Practical Course in Physics (ISBN: 978-93-86084-97-2)

### 10. Research papers published in international journal

<i>Sr. No</i>	<i>Title of paper</i>	<i>Journal name</i>
1.	High-performance metal–semiconductor–metal UV photodetector based on spray deposited ZnO thin films	Journal of Alloys and Compounds <i>I.F. 4.650</i>
2.	Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn–Pb–O	Journal of Molecular Structure <i>I.F. 2.463</i>
3.	Effect of Co doping on structural, morphological and LPG sensing properties of nanocrystalline ZnO thin films	Sensors and Actuators A: Physical <i>I.F. 2.904</i>
4.	ZnO based visible-blind UV photodetector by spray pyrolysis	Superlattices and Microstructures <i>I.F. 2.097</i>
5.	Effect of the buffer layer on the metal–semiconductor–metal UV photodetector based on Al-doped and undoped ZnO thin films with different device structures	physica status solidi (a) <i>I.F. 2.291</i>
6.	Synthesis of fast response, highly sensitive and selective Ni: ZnO based NO <sub>2</sub> sensor	Chemical Engineering Journal <i>I.F. 10.652</i>
7.	Chemical bath deposited ZnO thin film based UV photoconductive detector	Journal of Alloys and Compounds <i>I.F. 4.650</i>

8.	Multifunctional zinc oxide thin films for high-performance UV photodetectors and nitrogen dioxide gas sensors	RSC advances <i>I.F. 3.070</i>
9.	Synergistic Effects of Pd Decoration and Substrates on the NO <sub>2</sub> Sensing Performance of Sprayed WO <sub>3</sub> Thin Films	Chemical Physics Letters 2.733
10.	Synthesis and characterization of Al doped ZnO powder by precipitation method	Vivek

### 10. Research papers presented in national and international conferences:

Sr. No	Title of paper	Name of the conference
1.	Studies on synthesis and characterization of co-precipitated Zn <sub>2</sub> PbO <sub>4</sub>	NSAM-2011 Shivaji University, Kolhapur
2.	Studies on synthesis and characterization of co-precipitated nanocrystalline Zn <sub>2</sub> PbO <sub>4</sub>	ICPM-MDF-2012 Shivaji University, Kolhapur
3.	Studies on the synthesis and characterization of co-precipitated nanocrystalline Zn-Pb-O bulk system	MAM-12, K. S. Rangasamy college of Technology, Coimbatore, Tamil Nadu
4.	UV photoconductive detector on spray deposited ZnO thin films	Vivekananda college, Kolhapur
5.	Dielectric properties of undoped and Al-doped ZnO powder prepared by a chemical co-precipitation technique	NSPM-MDF 2013 Shivaji University, Kolhapur
6.	Studies on complex impedance spectroscopy and dielectric properties of ZnO and Al doped ZnO powders prepared by a chemical precipitation method	ICAER 2013, IIT Mumbai

### 11. Fellowships and guideship

- **Currently 3 Ph.D. students are working under my guidance.**
- Maulana azad junior research fellow in year 2011-2013
- Maulana azad senior research fellow in year 2013-2015

### 12. Compute skill

- Solid command of windows 98 to windows 2010
- Office applications
- Computer languages C and C<sup>++</sup>
- MS-CIT
- Expert in research software: Origin, Mathematica, Excel, Curve fitting, Gate data, X'pert highscore.

**13. Public Service & Volunteer Work**

- National Service Scheme (NSS) camp for two years (2007-2008)
- Participated in MCC ( Maharashtra Chatra Sena )

**14. Languages spoken and Ability**

- English, Hindi, Marathi
- Ability of anchoring in English

**15. Institutional Service**

- Operator of X-ray Diffraction facility at PIFC Department of Physics, Shivaji University Kolhapur
- Operator of LCR meter at PIFC Department of Physics, Shivaji University Kolhapur
- Mentor: Post graduate students for final year research projects

**16. Major Research Lines**

- Chemical Thin Film Deposition Techniques
- Nanostructures materials synthesis
- UV photodetector, gas sensor devices and photocatalysis

**17. Current research activities and facilities**

- Working on ZnO based DSSC and gas sensor
- Facilities available at institute: Spray pyrolysis, 6 Position Compact SILAR Coating System with stirrer, hydrothermal synthesis autoclave reactor, reflex unit, CBD setup, spin coater

“I wish to work on graphene perovskite solar cell because I am looking for an opportunity that lets me exercise my tinny research skill for material science. I feel this project will allow me to succeed because my research skills and facilities available at my institution will help me to work efficiently.”