#### **NAAC**

## **Teacher Profile**

#### A] Personal Details:

Name of the Teacher: Dr. Vinayak Vasant Ganbavle

Date of Birth: April 18, 1984

Educational Qualification: M.Sc., Ph.D.

Designation: Assistant Professor

Name of Dept.: Physics

Email: vinayakganbavale@gmail.com Mobile: 9960073358

**B]Awards: 2009-17** 

University Grants Commission Basic Scientific Research (UGC-BSR) Junior Research

Fellowship (22-03-2013 to 21-03-2015)

University Grants Commission Basic Scientific Research (UGC-BSR) Senior Research

Fellowship (21-03-2015 to 27-10-2015)

**C] Co-curricular Activities : NA** 

Sr.No.	Refresher/Orientation/Training completed.	Rank	Year	Place
1				
2				

Sr. No.	Lecture delivered to	Topic	Date	Place
1	Faculty of Shri Vijaysinha	Understanding Quality	14-10-2106	Peth Vadgaon
	Yadav Arts and Science	Measuring Tools for		
	College, Peth Vadgaon	Productivity of Research		
		Publications		

	Major/Minor				Status		Amour	t (Lakh)
Sr. No.	Research Project (Title, Funding Agency)	Duration	Year	Completed	Ongoing	Proposal Submitted	Receiv ed	Sanctio ned

Sr. No.	Research Guide for M.Phil/Ph.D.	Number of students		
1		Registered	Awarded	
	Total=			



### <u>Details of the Seminar, Conferences, Workshops: Participation, Presentations etc.</u>

Sr. No	Author Name	Participated/P aper Presented/ Chairperson/ Resource Person	Title	Date	Place	Status(National/ International/State)
1	V. V. Ganbavle, V. S. Sawant, K. Y. Rajpure	Paper Presented	Physico-chemical, electrical and dielectric properties of the spray deposited WO <sub>3</sub> films for gas sensor application	21-25 Nov 2012	K.S.Rangasamy College of Technology, Coimbatore, Tamil Nadu	6th International symposium on macro and supramolecular architectures and materials
2	V.V. Ganbavle, K. Y. Rajpure	Paper Presented	Structural, optical and electrical properties of WO <sub>3</sub> thin films	3-4 Jan 2013	Shivaji University, Kolhapur	National seminar on physics of material and material based device fabrication (NSPMMDF-2013)
3	V. V. Ganbavle, S.K. Patil, K. Y. Rajpure	Paper Presented	NO <sub>2</sub> , and SO <sub>2</sub> sensing properties of sprayed WO <sub>3</sub> films	Jan 2014	Shivaji University, Kolhapur	2nd International conference on Physics of material and material based device fabrication (ICPMMDF-2014),13- 15
4	V.V. Ganbavle, K.Y. Rajpure	Paper Presented	Structural, morphological and gas sensing properties of spray deposited Co:ZnO films	15th - 16th, Januar y 2014	Gopal Krishna Gokhale College, Kolhapur- 416012, (MS) India during.	International Conference on Advanced and Applied Material Science (ICAAMS-2014)
5	V.V. Ganbavle, S.V. Mohite, K.Y. Rajpure	Paper Presented	Structural, morphological and gas sensing properties for spray deposited Ni:ZnO films	10 -11 Januar y 2014	Yashwantrao Chavan Institute of Science, Satara during.	International Conference on Innovation in Energy, Polymer and

						Environmental Sciences (IEPES-2014) held at
6	V. V. Ganbavle, S.K. Patil, K. Y. Rajpure	Paper Presented	NO <sub>2</sub> , and SO <sub>2</sub> sensing properties of sprayed WO <sub>3</sub> films	13-15 Jan. 2014	Department of Physics, Shivaji University, Kolhapur	2nd International Conference on Physics of Materials and Materials based Device Fabrication (ICPMMDF-2014),
7	V.V. Ganbavle, K.Y. Rajpure	Paper Presented	Fast response, highly selective NO <sub>2</sub> sensor: Effect of Ni doping	19-20 Dec 2014	Shivaji University, Kolhapur	3rd National seminar on physics of material and material based device fabrication (NSPM-MDF-2014)
8	V. V. Ganbavle	Paper Presented (Oral presentation)	Enhanced NO <sub>2</sub> Sensing Properties of WO <sub>3</sub> Thin Film on Alumina Substrate	7-8 Dec 2016	Raje Ramrao, College, Jath	International Conference on Advances in Materials Science

## Publication of Research paper in Seminar/Conference/ Workshop/Symposium Proceedings .

Sr. No	Author/s Name	Title of the Paper	Title of The Seminar, Conference, Workshop/Symposium	Date	Place	Status(National/ International/State)	ISSN/ISBN Number
1							
2							
3							
4							

### F) Publications of Books:

Sr.	Subject	Author/s	Title	Class	Publisher	Year	With	Without ISBN
No.							ISBN	
1.	ZnO based UV	Sumayya I	ZnO based UV		Limbort	2016	978-3-	
	photodetector	Inamdar	photodetector		publisher,		659-	
		kesu Y			Germany.		94168-9	
		Rajpure						
		Vinayak V						
		ganbavle						

## G]1. Paper and Articles publications in <u>International Journals</u>

Sr.No	Title of The Paper	Author/s	With ISSN Number	Impact	Yea	Peer/Non-peer
•				Factor	r	reviewed
						/e-Journal etc.
1.	Assessment of structural,	AA Bagade, VV	Journal of Colloid and Interface	3.782	2017	Peer reviewed
	morphological, magnetic and gas	Ganbavle, SV	Science 497, 181-192			
	sensing properties of CoFe <sub>2</sub> O <sub>4</sub> thin	Mohite, TD				
	films	Dongale, BB	ISSN: 0021-9797			
		Sinha, KY				
		Rajpure				
2.	Photoelectrocatalytic activity of	SV Mohite, VV	Journal of Energy Chemistry		2017	Peer reviewed
	immobilized Yb doped WO 3	Ganbavle, KY				
	photocatalyst for degradation of methyl	Rajpure				
	orange dye					
3.	Facile Chemical Bath Deposition	DB Kamble, AK	Sensors and Actuators B: Chemical		2017	Peer reviewed
	Method for Interconnected Nanofibrous	Sharma, JB				
	Polythiophene Thin Films and Their	Yadav, VB Patil,				
	Use for Highly Efficient Room	RS Devan, AA				
	Temperature NO 2 Sensor Application	Jatratkar,				
4.	Photoelectrocatalytic degradation of	SV Mohite, VV	Chemistry and Physics 183, 439-446		2016	Peer reviewed
	benzoic acid using immobilized	Ganbavle, VV				
	tungsten trioxide photocatalyst	Patil, KY				
		Rajpure				
		Materials				

5.	Synthesis and characterization of zinc stannate thin films prepared by spray pyrolysis technique	M. A. Patil, S. H. Mujawar, <u>V. V.</u> <u>Ganbavle</u> , K. Y. Rajpure, H. P. Deshmukh	Journal of Materials Science: Materials in Electronics, 27 (12), 12323-12328 ISSN: 0957-4522	1.798	2016	Peer reviewed
6.	Multifunctional zinc oxide thin films for high performance UV photodetector and nitrogen dioxide gas sensor	S. K. Shaikh, <u>V.</u> <u>V. Ganbavle</u> , S. I. Inamdar, K. Y.	<b>RSC advances</b> , 6 (31), 25641-25650, 2016	3.289	2016	Peer reviewed
7.	Chemical bath deposited ZnO thin film based UV photoconductive detector	Rajpure S. K. Shaikh, S. I. Inamdar, V. V. Ganbavle, K. Y. Rajpure	ISSN:2046-2069  Journal of Alloys and Compounds, 664 (2016) 242-249  ISSN: 0925-8388	3.014	2016	Peer reviewed
8.	Synthesis of fast response, highly sensitive and selective Ni:ZnO based NO <sub>2</sub> sensor	V.V. Ganbavle, S.I. Inamdar, G.L. Agawane, J.H. Kim, K.Y. Rajpure	Chemical Engineering Journal, 286 (2016) 36-47  ISSN: 1385-8947	5.310	2016	Peer reviewed
9.	Solar photoelectrocatalytic activities of rhodamine-B using sprayed WO <sub>3</sub> photoelectrode	S.V. Mohite,  V.V. Ganbavle,  K.Y. Rajpure	Journal of Alloys and Compounds, 655 (2016) 106-113 ISSN: 0925-8388	3.014	2016	Peer reviewed
10.	Effect of solution concentration on physicochemical and gas sensing properties of sprayed WO <sub>3</sub> thin films	V.V. Ganbavle, S.V. Mohite, J.H. Kim, K.Y. Rajpure	Current Applied Physics, 15 (2) (2015) 84-93 ISSN: 1567-1739	2.144	2015	Peer reviewed
11.	Effect of Substrate Temperature on the Properties of Sprayed WO <sub>3</sub> Thin Films Using Peroxotungstic Acid and Ammonium Tungstate: A Comparative Study	V.V. Ganbavle, J.H. Kim, K.Y. Rajpure	Journal of Electronic Materials, 44 (3) (2015) 874-885 ISSN: 0361-5235	1.491	2015	Peer reviewed
12.	Effect of the buffer layer on the metal–semiconductor–metal UV	S.I. Inamdar,  V.V. Ganbavle, S.A. Shaikh,	Physica Status Solidi (a), 212 (8) (2015) 1704–1712	1.648	2015	Peer reviewed

	photodetector based on Al doped and undoped ZnO thin films with different device structures	K.Y. Rajpure	ISSN: 1862-6319			
13.	Nitrogen dioxide sensing properties of sprayed tungsten oxide thin film sensor: Effect of film thickness	V.V. Ganbavle, S.V. Mohite, G.L. Agawane, J.H. Kim, K.Y. Rajpure	Journal of Colloid and Interface Science, 451 (2015) 245-254  ISSN: 0021-9797	3.782	2015	Peer reviewed
14.	$V_2O_5$ thin films: Effect of substrate temperature	A.A. Mane, <u>V.V.</u> <u>Ganbavle</u> , M.A. Gaikwad, S.S. Nikam, K.Y. Rajpure, A.V. Moholkar	Journal of Analytical and Applied Pyrolysis, 115 (2015) 57-65  ISSN: 0165-2370	3.652	2015	Peer reviewed
15.	Physicochemical Properties of Spray- Deposited CoFe <sub>2</sub> O <sub>4</sub> Thin Films	A.A Bagade,  V.V. Ganbavle,  K.Y. Rajpure	Journal of Materials Engineering and Performance, 23 (8) (2014) 2787-2794 ISSN: 1544-1024	1.094	2014	Peer reviewed
16.	Development of $Zn_2SnO_4$ thin films deposited by spray pyrolysis method and their utility for $NO_2$ gas sensors at moderate operating temperature	V.V. Ganbavle, M.A. Patil, H.P. Deshmukh, K.Y. Rajpure	Journal of Analytical and Applied Pyrolysis, 107 (2014) 233-241  ISSN: 0165-2370	3.652	2014	Peer reviewed
17.	Structural, optical, electrical, and dielectric properties of the spray-deposited WO <sub>3</sub> thin films	V.V. Ganbavle, G.L. Agawane, A.V. Moholkar, J.H. Kim, K.Y. Rajpure	Journal of Materials Engineering and Performance, 23 (4) (2014) 1204-1213 ISSN: 1544-1024	1.094	2014	Peer reviewed

18.	Effect of Co doping on structural, morphological and LPG sensing properties of nanocrystalline ZnO thin films	V.V. Ganbavle, S.K. Patil, S. I. Inamdar, S.S. Shinde, K.Y. Rajpure	Sensors and Actuators A: Physical, 216 (2014) 328-334 ISSN: 0924-4247	2.201	2014	Peer reviewed
19.	ZnO based visible-blind UV photodetector by spray pyrolysis	S.I. Inamdar,  V.V. Ganbavle,  K.Y. Rajpure	Superlattices and Microstructures, 76 (2014) 253-263 ISSN: 0749-6036	2.117	2014	Peer reviewed
20.	Self-cleaning silica coatings on glass by single step sol—gel route	V.V. Ganbavle, U.K.H. Bangi, S.S. Latthe, S.A Mahadik, A.V. Rao	Surface and Coatings Technology, 205 (23) (2011) 5338-5344 ISSN: 0257-8972	2.139	2011	Peer reviewed
21.	Influence of preparation conditions on nanoporous structure and optical transmission of sodium silicate based ambient pressure dried aerogels employing shaking	A.V. Rao, <u>V.V.</u> <u>Ganbavle</u> , U.K.H. Bangi, S.L. Dhere	Journal of Porous Materials, 18 (6) (2011) 751-759  ISSN: 1573-4854	1.385	2011	Peer reviewed

### **Top 25 Hottest Articles in Various Subject Areas:**

- Current Applied Physics, 15 (2) (2015) 84-93; Ranked 19<sup>th</sup> on the top 25 for July to September 2015
- Current Applied Physics, 15 (2) (2015) 84-93; Ranked 20<sup>th</sup> on the top 25 for April to June 2015
- Current Applied Physics, 15 (2) (2015) 84-93; Ranked 6<sup>th</sup> on the top 25 for January to March 2015
- Current Applied Physics, 15 (2) (2015) 84-93; Ranked 20<sup>th</sup> on the top 25 for October to December 2014
- Sensors and Actuators A: Physical, 216 (2014) 328-334, Ranked 13<sup>th</sup> on the top 25 for July to September 2014
- Superlattices and Microstructures, 76 (2014) 253-263; Ranked 16<sup>th</sup> on the top 25 for October to December 2014

• Surface and Coatings Technology, 205 (23) (2011) 5338-5344; Ranked 21<sup>th</sup> on the top 25 January to December 2011 Full Year

#### 2. Paper and Articles publications in National Journals

Sr.No.	Title of The Paper	Author/s	With ISSN Number	Without ISSN	Impact Factor	Year	Peer/Non-peer revived/e-Journal etc.
1							

#### 3. Paper and Articles publications in Other Journals

Sr.No.	Title of The Paper	Author/s	With ISSN Number	Without ISSN	Impact Factor	Year	Peer/Non-peer revived/e-Journal etc.
1							

	4.	Worksho	p/Conference/	Seminar	Organized
--	----	---------	---------------	---------	-----------

5.Acted as a Coordinator/Convener/member of working committee:

i)

ii)

iii)

- 6. Member of Professional Organisation :-
- 7. Contribution in Social Work/Extension activity.
- 8. Life Membership of Research Society/Journals.
- 9.Academic Awards:-

Name of the Award	Regional/State/National	Agency	Year of Award

10. Interviews on Media.

Name of Media	Title of Interview	Year

# 11. Books Edited /Chapter/s -Edited in Books.

Name of Book	Author/s	ISBN / ISSN NO.	Publisher	Year of Publication.

Dr. Vinayak Vasant Ganbavle