

## Resume

**1. Name:** Dr. Pratibha Rahul Rao

**2. Department:** Physics

### 2. Details of University/ Institution Studied :

Degree / Examination Passed	Subjects/Area of specialization	Institution	Year of Passing	Average Marks/CGPA	Class
10th	Eng., Hindi, Maths, Sci., So. Sci.	Kendriya Vidyalaya Ganeshkhind, Pune-7	1996	62.2%	1 <sup>st</sup>
12 <sup>th</sup>	Eng., Hindi, Phy., Chem., Maths, Geography	Abasaheb Garware College, Karve Road, Pune-4	1998	69.50 %	1 <sup>st</sup>
B.Sc.	Physics	Abasaheb Garware College, Karve Road, Pune-4	2001	64.66 %	1 <sup>st</sup>
M.Sc.	Physics	Abasaheb Garware College, Karve Road, Pune-4	2003	69.65 %	1 <sup>st</sup>
M. Phil.	Physics	Dept. of Physics, University of Pune	2008	'A'grade	1 <sup>st</sup> With Distinction
Ph. D.	Physics	Abasaheb Garware College, Karve Road, Pune-4	2017	--	--

**3. Experience (Teaching):** 9 years

Name of the Organization	Designation	Period		Nature of Work
		From	To	
Abasaheb Garware College, Karve Road, Pune-4	Lecturer	Nov 2004	March 2005	Teaching in college on CHB
Fergusson college	Lecturer	August 2005	April 2006	Teaching in college on CHB
Abasaheb Garware College, Karve Road, Pune-4	Lecturer	August 2006	April 2008	Teaching in college as guest lecturer
Abasaheb Garware College, Karve Road, Pune-4	Lecturer	August 2008	April 2009	Teaching in college on ad hoc basis
Modern College Ganeshkhind, Pune-16	Asst. Prof.	July 2017	June 2021	Teaching in college on ad hoc basis

**4. Research Publications:** 12

- I. Ferrite thin films: Synthesis, characterization and gas sensing properties towards LPG  
**Pratibha Rao**, R.V. Godbole, D.M. Phase, R.C. Chikate and Sunita Bhagwat, Mater. Chem. Phys. 149 (2015) 333–338
- II. Chlorine gas sensing performance of palladium doped nickel ferrite thin films  
**Pratibha Rao**, R.V. Godbole and Sunita Bhagwat, J. Magn. Magn. Mater. 405 (2016) 219–224
- III. Copper doped nickel ferrite nano-crystalline thin films: A potential gas sensor towards reducing gases  
**Pratibha Rao**, R.V. Godbole and Sunita Bhagwat, Mater. Chem. Phys. 171 (2016) 260–266
- IV. Highly responsive and stable  $Y^{3+}$  doped NiMg–ferrite thick films as an efficient humidity sensor  
**Pratibha Rao**, Rajeev C. Chikate and Sunita Bhagwat, New J. Chem. 40 (2016) 1720- 1728
- V. Nanocrystalline Pd:NiFe<sub>2</sub>O<sub>4</sub> thin films: A selective ethanol gas sensor  
**Pratibha Rao**, R.V. Godbole and Sunita Bhagwat, J. Magn. Magn. Mater. 416 (2016) 292–298
- VI. Al-doped ZnO Nanocrystals.  
**Pratibha Kadam**, Chitra Agashe, and Shailaja Mahamuni, J.Appl.Phys. 104 (2008) 193501
- VII. Influence of Fuel to Oxidizer Ratio on LPG Sensing Performance of MgFe<sub>2</sub>O<sub>4</sub> Nanoparticles  
R.V. Godbole, Pratibha Rao, P.S. Alegaokar and Sunita Bhagwat, Mater. Chem. Phys. 161 (2015) 135–141

- VIII. Influence of Fuel to Oxidizer Ratio on Gas Sensing Characteristics of ZnFe<sub>2</sub>O<sub>4</sub> Nanoparticles  
R.V. Godbole, **Pratibha Rao**, V.P. Godbole, P.S. Alegaokar and Sunita Bhagwat  
Proceedings of the 2015 2<sup>nd</sup> International Symposium on Physics and Technology of Sensors (ISPTS – 2), IEEE Conference Publication, Pune, India, 8–10 March 2015, pp. 147–153
- IX. Study of Dielectric Properties of Nano-crystalline Mn-Zn Ferrite  
Sunita Bhagwat and **Pratibha Rao**, IOSR Journal of Applied Physics 3(1) (2013) 1-6
- X. Doping Optimization and Surface Modification of Aluminum-doped Zinc Oxide Transparent Conductive Coating  
D. Inamdar, C. Agashe, **P. Kadam** and Shailaja Mahamuni, Thin Solid Films 520 (2012) 3871
- XI. Magnesium ferrite nanoparticles: A rapid gas sensor for alcohol  
R. V. Godbole, **Pratibha Rao** and Sunita Bhagwat, Materials Research express 4 (2017) 025032
- XII. Synthesis and Structural Properties of Doped and Un-doped MnO<sub>2</sub> Nanoparticles for its Use in Percussion Instruments  
Varsha Joshi, **Pratibha Rao**, S Dheke, Sharmila Chaudhari, JETIR May 2019, Volume 6, Issue 5 (ISSN-2349-5162)

**5. Computer Knowledge** : 'C' Programming.

**6. Extracurricular Activities** : NCC C Cert (Naval Wing),  
Sports: Cricket (Zonal Level), Volley Ball, Table Tennis  
Winner of Badminton intercollegiate competition

I hereby declare that the statements made in the resume above are true to the best of my knowledge and belief.

Date :

Place : Pune

(Pratibha Rahul Rao)