


Curriculum Vitae

I] Personal Profile:

Name	Dr. Mane Amitkumar Tanajirao		
Contact Number	9527634958		
Email id	amitmane100@gmail.com		
Permanent Address	Sarkarwada, Near Ram Mandir Chauk, A/P- Khanapur, Tal- Khanapur, Dist- Sangli 415307 (Maharashtra) India.		
Present Address	C/o Dr. Mayuri Desai, Medical Officer, Primary Health Center, At.post: Talawali, Tal:- Guhagar. Dist: Ratnagiri, 415719 (Maharashtra)		
Gender	Male	Date of Birth	16 th June 1981
Height	180 cm	Weight	65 kg
Marital Status	Married	Nationality	Indian

II] Educational Qualification: M.Sc. B.Ed. Ph.D.

Sr. No	Degree	Subject	Grade	Marks	Institute / Department	University	Month & Year
1	Ph.D.	Physics	I	-	School of Physical Sciences	Solapur University, Solapur	June, 2017
2	B.Ed.	Math's. & Science	I	434/700	Smt. Putlaben Shah College of Education, Sangli	Shivaji University, Kolhapur	April, 2004
3	M.Sc.	Physics	I	1450/2400	School of Physical Sciences, Solapur	Shivaji University, Kolhapur	April, 2003
4	B.Sc.	Physics	I dist.	1772/2500	Balwant College, Vita	Shivaji University, Kolhapur	April, 2001
5	H.S.C	Physics, Chemistry, Biology	II	328/600	Mahatma Gandhi vidyalaya, Khanapur	Maharashtra State Board of Secondary & Higher Secondary Education, Pune	Feb. 1998
6	S.S.C	English, Math's, Science	II	444/750	Mahatma Gandhi vidyalaya, Khanapur	Maharashtra State Board of Secondary & Higher Secondary Education, Pune	Feb. 1996

III] Teaching Experience: 15 Years

Sr. No.	Post	Institute	Duration	Total
1	Assistant Professor	Maharshi Parshuram College of Engineering & Technology, Velneshwar (Guhagar)	17 th July 2015 – till date	6.6 Y
2	Assistant Professor	Maharshi Parshuram College of Engineering & Technology, Velneshwar (Guhagar)	6 th August, 2012 - 31 st December, 2013	1.4 Y
3	Assistant Professor	G.M.Vedak institute of Engineering & Technology, Tala (Raigad)	20 th August, 2011 - 05 th August, 2012	11 M
4	Lecturer	Rajendra Mane College of Engineering & Technology	19 th August, 2008 -19 th August 2011	3Y
5	Lecturer	Rajaram Shinde College of Engineering & Technology, Chiplune	May. 2006 - Aug. 2008	1.9 Y
6	Lecturer	D.P Bhosale college, Koregaon	June. 2004 - Apr. 2006	1.10Y

IV] Research Experience: 1.7 Years

Sr. No.	Post	Institute	Duration	Total
1	Research Scholar	School of Physical Sciences, Punyashlok Ahilyadevi Holkar, Solapur University, Solapur	1 st January 2014 – 16 th July 2015	1.7 Y

V] Research Paper Publications: 17 (International)

Sr. No.	Publisher	Journal	Vol./ Year/ Page No.	Title of paper	Authors	Impact factor
1	Taylor & Francis	International Journal of Polymeric Materials	59 (10), (2010) 777-785	Synthesis and characterization of polyaniline: TiO ₂ nanocomposites	S. G. Pawar, S. L. Patil, M. A. Chougule, A. T. Mane , D. M. Jundale, V. B. Patil	1.970
2	Springer Link	Journal of Materials Science: Materials in Electronics 21 (12), 1332-1336	21 (2010) 1332–1336	Nanocrystalline ZnO thin films: optoelectronic and gas sensing properties	S. L. Patil, S. G. Pawar, M. A. Chougule, A. T. Mane V. B. Patil	1.798
3	Elsevier	Synthetic Metals	189 (2014) 94-99	Highly selective and sensitive room temperature NO ₂ gas sensor based on Polypyrrole thin films	S.T.Navale, A.T. Mane ,M.A.Chougule,R.D.Sakhar e,S.R.Nalage,V. B.Patil	2.299
4		Measurement	50 (2014)	Camphor sulfonic acid (CSA) doped	S.T. Navale, A.T. Mane ,	1.742

	Elsevier		363-369	polypyrrole (PPy) films: Measurement of microstructural and optoelectronic properties	A.A. Ghanwat, A.R. Mulik, V.B. Patil	
5	Elsevier	Synthetic Metals	195 (2014) 228-233	Room temperature NO ₂ sensing properties of polythiophene films	S.T.Navale, A.T. Mane , G.D. Khuspe, M.A.Chougule, V.B.Patil	2.299
6	Elsevier	Organic Electronics	16 (2015) 195-204	Nitrogen dioxide (NO ₂) sensing performance of p-polypyrrole/n-tungsten oxide hybrid nanocomposites at room temperature	A.T. Mane , S.T. Navale, Shashwati Sen, D.K. Aswal, S.K. Gupta, V.B. Patil	3.471
7	Elsevier	Ceramics International	40 (10) (2014) 16495-16502	NO ₂ sensing properties of nanostructured tungsten oxide thin films	A.T. Mane , S.B. Kulkarni, S.T. Navale, A.A.Ghanwat, N.M.Shinde, JunHo Kim, V.B. Patil	2.758
8	Elsevier	Synthetic Metals	189 (2014) 111-118	Highly sensitive, reproducible, selective and stable CSA-polypyrrole NO ₂ sensor	S.T.Navale, M.A.Chougule, V.B.Patil, A.T. Mane	2.299
9	Springer Link	Journal of Materials Science: Materials in Electronics	26 (2) (2014) 1087-1096	Synthesis, structural, compositional, morphological and optoelectronic properties of tungsten oxide thin films	S. B. Kulkarni, P. S. Kulkarni, A. T. Mane , R. N. Mulik, S. T. Navale, V. B. Patil	1.798
10	Elsevier	Organic Electronics	19 (2015) 15-25	Room temperature NO ₂ gas sensing properties of DBSA doped PPy-WO ₃ hybrid nanocomposite sensor	A.T. Mane , S.T. Navale, V.B. Patil	3.471
11	Elsevier	Synthetic Metals	199 (2015) 187-195	Microstructural, optical and electrical transport properties of WO ₃ nanoparticles coated polypyrrole hybrid nanocomposites	A.T. Mane , S.T. Navale,, R.C. Pawar, C.S. Lee, V.B. Patil	2.299
12	Springer Link	Ionics	20 (11) (2014) 1607-1616	Polypyrrole-NiO hybrid nanocomposite films: highly selective, sensitive, and reproducible NO ₂	S. R. Nalage, A. T. Mane , R. C. Pawar C. S. Lee, V. B. Patil	2.119

				sensors		
13	Elsevier	Synthetic Metals	204 (2015) 1-9	Ammonia sensing properties of polyaniline/a-Fe ₂ O ₃ hybrid nanocomposites	D.K.Bandgar, S.T.Navale, A.T.Mane , S.K.Gupta, D.K.Aswal, V.B.Patil	2.299
14	Royal Society of Chemistry	RSC Advances	4 (84) (2014) 44547-44554	Highly selective and sensitive CdS thin film sensors for detection of NO ₂ gas	S. T. Navale, A. T. Mane , M. A. Chougule, N. M. Shinde, JunHo Kim, V. B. Patil	3.289
15	Springer Link	Journal of Materials Science: Materials in Electronics	26 (11) (2015) 8497-8506	Dodecyl benzene sulfonic acid (DBSA) doped polypyrrole (PPy) films: synthesis, structural, morphological, gas sensing and impedance study	A. T. Mane , S. D. Sartale, V. B. Patil	1.798
16	Elsevier	Progress in Organic Coatings	87 (2015) 88-94	Synthesis and structural, morphological, compositional, optical and electrical properties of DBSA-doped PPy–WO ₃ nanocomposites	A.T. Mane , S. T. Navale, R.S. Mane, Mu. Naushad, V.B. Patil	2.577
17	Springer Link	SN Applied Sciences	360 (2021)	Hydrothermally grown 1D ZnO nanostructures for rapid detection of NO ₂ gas	P. R. Godse, A. T. Mane , Y. H. Navale, S. T. Navale, R. N. Mulik, V. B. Patil	3.360

VI] Book Publication:

- **PPy-WO₃ HYBRID NANOCOMPOSITE FOR GAS SENSING APPLICATIONS**, LAMBERT Academic Publishing, ISBN: 978-620-2-00538-8.
- **A Text Book of ENGINEERING PHYSICS-I**, Planet Publishing House, Hyderabad, ISBN: 978-81-93337-44-8.

VII] Book Chapter

- Spectroscopy of Polymer Nanocomposites, CHAPTER 15 “**X-ray photoelectron spectroscopy of nanofillers and their polymer nanocomposites**” page no, 452-456

VIII] Poster Presentation/Conference/Workshop (14)

- One day workshop on “**Inter-collegiate Research Convention AVISHKAR-2016-17**” September 24,2016 Organized by Department of Students Welfare University of Mumbai at Maharshi Parshuram College of Engineering & Techchnology, Velneshwar (Guhagar).
- International conference on “**Functional Materials and Microwaves (ICFMM-2015)**” December 28-30, 2015 Organized by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad. (**Third Price in poster presentation**).
- National conference “ **Latest Trends in Fundamental Research**”, February 21st 2015 , in association with RSC-West India section, organized by School of Chemical Sciences, Solapur University, Solapur.
- Seminar on “**Latest Developments in Material Characterization Techniques**”, February 5-6, 2015, School of Physical Sciences, Solapur University, Solapur.
- **Room Temperature Operating Low Cost Gas Sensor System- Poster & demo presentation**
(9th Maharashtra state inter university research convention AVISHKAR-2014, January 21-23, 2015, Maharashtra animal and fishery science university, Nagpur.)
- **Highly selective and sensitive Nitrogen dioxide (NO₂) sensing performance of p-polyppyrrrole/n-tungsten oxide hybrid nanocomposites at room temperature**
(U.G.C. sponsored national seminar on “Recent Trends In Nanomaterial And Their Applications”, (RTNM-2015), January 23-24, Sangola College, Sangola)
- **DBSA doped Polypyrrrole-WO₃ hybrid nanocomposite sensor for detection of nitrogen dioxide (NO₂) gas- oral presentation**
(U.G.C. sponsored two day national conference on “Nanomaterials and Nanomaterial Based Devices”, 2014, December 23-24, Dattajirao Kadam Arts, Science and Commerce Collage, Ichalkaranji)
- **Fabrication of Low Cost Gas Sensor System- Poster & demo presentation**
(University level research Festival - AVISHKAR -2014, December 25-26, Fabtech Technical Campus and Research Center, Sangola, Solapur. **Second Price pure science group**)
- **CSA Doped PPy Thin Film Sensor For NO₂ Monitoring**
(DAE-BRNS Conference on Organic Devices: The Future Ahead ODeFA–2014 March 3-6, 2014, Bhabha Atomic Research Centre, Anushakti Nagar, Mumbai, Maharashtra, INDIA.)
- **NO₂ Sensing Properties of Nanostructured WO₃Thin Films**

(2nd International Conference on Physics of Materials and Materials based Device Fabrication, (ICPM-MDF-2014) 13-15th January, 2014 Department of Physics, Shivaji University, Kolhapur, INDIA.)

➤ **Room Temperature Gas Sensing Properties of Polyaniline Thin Films**

(Homi Bhabha Centenary BRNS-GND University Workshop on MOLECULAR/ORGANIC ELECTRONIC DEVICES (MOED-2009) September 22-25, 2009, GND University, Amritsar)

➤ **One week STTP on “Methodology For Effective Teaching Learning Process”**

July 4-9, 2011, Adarsh Institute of Technology, Vita.

➤ **One week STTP on “Advanced Materials in Engineering”**, December 13-17, 2010, SSPM’S College of Engineering, Kankavali.

➤ **Nanocrystalline ZnO Thin Films: Optoelectronic and Gas Sensing Properties**

(Homi Bhabha Centenary BRNS-GND University Workshop on MOLECULAR/ORGANIC ELECTRONIC DEVICES (MOED-2009) September 22-25, 2009, GND University, Amritsar)

IX] Membership

- Indian Society of Mechanical Engineers (ISME)
- Instrument Society of India (ISOI)
- International Society for Research and Development (ISRDI)
- Member of Scope Database – International Advisory Board (ID: IA0000349)

X] Research Interest:

- Design and development of organic, inorganic and organic/inorganic hybrid nanomaterials for the application in gas sensors, supercapacitors and solar cells.
- Processing techniques include chemical oxidative polymerization, in-situ polymerization, sol-gel processing, hydrothermal growth and electrochemical deposition.
- The research emphasis is to achieve novel properties for various applications through control of nanostructure and atomic engineering of materials through processing and composition design.

XI] Instruments Handled:

- ❖ Spin Coater (APEX Instruments, Model: SCU 2007)
- ❖ UV-Visible spectrophotometer
- ❖ KEITHLEY 6514/2400 System Electrometer

- ❖ Regaku table top X-ray diffractometer
- ❖ Impedance analyzer (WAYNE KERR, Model: 6500B)
- ❖ High temperature Furnaces
- ❖ Room and high temperature gas sensing measurement unit
- ❖ Hydrothermal unit
- ❖ Solar Simulator
- ❖ Potentiostat/Galvanostat (WPG 100e Won A Tech)

XII] Experimental Techniques known:

- ❖ Chemical polymerization
- ❖ Sol-gel synthesis
- ❖ Chemical bath deposition
- ❖ Hydrothermal synthesis
- ❖ Electrodeposition
- ❖ Solid state synthesis
- ❖ Dip coating
- ❖ SILAR

XIII] Other Techniques known:

- ❖ Transmission electron microscopy (TEM)
- ❖ Field Emission Scanning Electron Microscopy (FESEM),
- ❖ Fourier Transform Infrared Spectroscopy (FTIR),
- ❖ X-ray photoelectron spectroscopy (XPS),
- ❖ Contact Angle Meter, etc.

XIV] Computer proficiency:

MS Office, Origin 6.1, Origin 8.1, Chemdraw Ultra 2002-1, Impedance software eissa-0.1b, etc.

XV] Academic & Administrative Achievements:

- **In charge Principal** of VPM's, Maharshi Parashuram College of Engineering, Velneshwar. During my tenure, the college has achieved "B" grade of NAAC in first cycle.
- **Paper Setter** of Applied Physics of University of Mumbai.
- **Moderator** of Applied Physics of University of Mumbai.
- **First Year Coordinator.**
- Member of **Anti-ragging committee**

- Member of **Grievance committee**
- Chairperson of **Unfair means committee**
- Coordinator of **Research Culture Committee**

XVI] References:

Prof. V.B. Patil Functional Materials Research Laboratory School of Physical Sciences Solapur University, Solapur Maharashtra, India. Mob. No. +91 9422532521 Email id: drvbpatil@gmail.com	Dr. Shaswati Sen Scientist 'F' Crystal Technology Section Technical Physics Division BARC, Mumbai, India Mob. No. +91 9969441831 Email id: shashwatisen@gmail.com
Prof. L.N. Singh Head Department of Physics, Director IQAC Dr. B.A.Technological University, Vidyavihar, Lonere, Raigad, Maharashtra, India Mob. No. +91 8087369025 Email id: lms2k@yahoo.com	

Date:

Dr. Mane A. T.