

## CURRICULUM VITAE



1. **Name** : **Dr. MADHAVRAO KESHAVRAO DEORE**
2. **Designation** : **Professor and Ex. Head, Department of Physics,  
K.T.H.M. College, Nashik, Dist.-Nashik,**
3. **Subject** : **Physics**
4. **Educational Qualification:** **M.Sc. (Physics), Ph.D.(Physics)**
5. **API Score** : **365.61**
6. **Work Experience:** **UG: - 33 Years , PG:-10 years**
7. **Contact Address:** **12, Indumati, Vivekanand Nagar,  
Anadwali Pipeline Road,  
Nashik-422013  
Mb. No.: 9403031329 , 9860523315  
Email: deoremadhav63@gmail.com ,  
madhavdeore@kthmcollege.ac.in**
8. **Title of Ph.D. thesis** : **“Preparation and Studies on Gas Sensing  
Performance of Pure and Doped Zinc oxide(ZnO)  
Thick Film Resistors”**
9. **Area of interest** : **Material Science, Nanomaterials, Gas Sensor,**
10. **Recognized guide** : **M.Phil. –SavitribaiPhule Pune University, Pune  
Ph. D. –SavitribaiPhulePuneUniversity, Pune**

### 11. Particulars of Degrees previously obtained:

Sr. No.	Degree	University	Year of passing	Class	Marks	Subject
1	B.Sc.	Savitribai Phule Pune University, Pune	1985	I	67.85 %	Physics
2	M.Sc.	Savitribai Phule Pune Uni.	1988	I	64.4 %	Physics
3	Ph. D.	Savitribai Phule Pune Uni.	2012	-	-	Physics

**12: Research Details:**

Sr. No.	Research Degree	Number Enrolled	University	No. of students completed/ Submitted	Degree Awarded
1	M.Phil.	-	SPP University, Pune	01	01
2	Ph.D.	07	SPP University, Pune	01	01

**13. Special Achievement (Award):**

Sr. No.	Name of Award	Agency	Year	Place
1	<b>Best Paper Presentation Award</b>	Indian Science Congress Association	Jan.2009	North HillUni ., Shilong, Meghalaya
2	<b>Best Paper Presentation Award</b>	National Conference on Development of Electronic Materials and Their Applications	March 1995.	Shivaji University, Kolhapur
3	<b>LokneteVenkatrao Hire Best College Teacher Award</b>	Bhauasaheb Hire Trust, Mumbai	2014	Malegaon
4	<b>Best College Teacher Award</b>	SarvajanicVachanalya, Nashik	2019	Nashik

**14. Special Achievement (Honors and Recognitions):**

Sr. No.	Honors	Agency	Place	Year
1	<b>Member of school Council School of Architect, Science and Technology</b>	YashwantraoChavan Maharashtra Open University	Nashik.	<b>2020-23</b>
2	<b>Member of BOS</b>	Sathay College(Autonomus),	Mumbai	<b>2021-2023</b>
3	<b>Member of BOS</b>	Hangu Kana Arts, Sci. and Com. college, Panvel, New Mumbai(Autonomus),	Mumbai	<b>2021-2023</b>
4	<b>Associate Editor</b>	International Journal of Chemical and Physical Sciences, ISSN:2319-6602	Amravati, India	2014 and till
5	<b>International Program Committee Member</b>	International Conference on Sensors, Engineering and Electronics Instrumental Advances (SEIA' 2015)	Dubai, UAE	Nov.- 2015
6	<b>International Technical Program Committee Member</b>	The First International Conference on Advances in Sensors, Actuators, Metering and Sensing(ALLSENSORS 2016)	Venice, Italy	April - 2016

7	<b>International Program Committee member</b>	2 <sup>nd</sup> International Conference on Sensor and Electronics Instrumental Advances(SEAI-2016)	Barcelona, Spain	Sept. - 2016
8	<b>International Technical Program Committee Member</b>	The Second International Conference on Advances in Sensors, Actuators, Metering and Sensing (ALLSENSORS-2017)	Nice, France	March - 2017
9	<b>Conference Technical Committee Member</b>	International Conference Smart Sensing and Intelligent System(ICSSIS 2018)	Beijing, China.	2018
10	<b>Conference Technical Committee Member</b>	The Fourth International Conference on Advances in Sensors, Actuators, Metering and Sensing ALLSENSORS 2019	Athens, Greece	Feb.- 2019
11	<b>Chairperson of one Session</b>	International Conference on 'Advances in Functional Materials'	Stony Brook University, Long Island, New York State, USA.	Jully- 2015

#### 15. Book Published:

#### Total Books/Chapters in Books published with ISBN =21 (Chapter:03, Books: 18)

Sr. No.	Title of Books/Chapters	Authors	Publisher	Year	ISBN/ISSN
1	"Studies on Gas Sensing Performance of Pure and Nano Ag Doped ZnO Thick Film Resistors"	<b>M. K. Deore</b> , V. B. Gaikwad, , S. D. Shinde, P. K. Khanna, D. D. Kajale, D. N. Chavan, G. H. Jain	Recent Advances in Sensing Technology, Volume 49 of Lecture Notes in Electrical Engineering, Springer,2009, LNEE 49, pp 293-308,	2009	ISSN-2194-8402, ISBN-978-3-642-32179-5. 2009
2	Formulation, Characterization and LPG-Sensing Properties of CuO-Doped ZnO Thick Film Resistor",	<b>M. K. Deore</b> , V. B. Gaikwad, N.U.Patil, P.D.Hire, R.M. Chaudhari, V.G.wagh, G. H. Jain,	Advancement in Sensing Technology, Smart Sensors, Measurement and Instrumentation, Springer Berlin Heidelberg, Volume 1, 2013, pp 283-298,	2013	ISBN-978-1-4577-0168-9.
3	Studies of Microstructure Properties and Gas Sensing Performance of (Sn0.3Ti0.7) O <sub>2</sub> Thick Film Resistors"	P. D. Hire, V. B. Gaikwad, N. U. Patil, <b>M. K. Deore</b> , G. H. Jain	Sensing Technology: Current Status and Future Trends, Verlag: Springer International Publishing ,2014, Seite 209-230.,	2014	ISSN: 978-3-319-02318-2.
4	Mechanics and Properties of Matter: PHY-121, Paper-I, F. Y. B. Sc.(Savitribai Phule Pune University)	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. A. B. Rahane, Dr. S. D. Shinde	Prashant Publication, Jalgaon	2019	978-93-85664-72-4

5	Physics: Principles and Applications: Phy-112, Paper-II, F. Y. B. Sc. (SavitribaiPhule Pune University)	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. A. B. Rahane, Dr. S. D. Shinde	Prashant Publication, Jalgaon	2019	987-93-85664-73-1
6	Physics laboratory (Practical Book): PHY-113&113, Paper-III, F. Y. B. Sc. (SavitribaiPhule Pune University),	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. A. B. Rahane, Dr. S. D. Shinde	Prashant Publication, Jalgaon	2019	978-93-85664-0-0
7	Heat and Thermodynamics, Phy-121, Paper-I, F. Y. B. Sc. (SavitribaiPhule Pune University)	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. A. B. Rahane, Dr. S. D. Shinde	Prashant Publication, Jalgaon	2019	978-93-89501-14-8
8	Electricity and magnetism, Phy-122, Paper-II, F. Y. B. Sc. (SavitribaiPhule Pune University)	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. A. B. Rahane, Dr. S. D. Shinde	Prashant Publication, Jalgaon	2019	978-93-89501-14-8
9	Fundamentals of materials science, Published by :	<b>Dr. M. K. Deore</b>	Arts, Science And Commerce College, Ozar(MIG),	2019	978-81-931219-5-5
10	Methods of Mathematical Physics: Paper-I, S. Y. B. Sc. (SavitribaiPhule Pune University)	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. Ashok Kalange Dr. S. D. Shinde	Prashant Publication, Jalgaon	2020	978-93-89493-19-1
11	Electronics: Paper-II, S. Y. B. Sc., (SavitribaiPhule Pune University)	<b>Dr. M. K. Deore</b> , Dr. MadhavSarode, Dr. Ashok Kalange Dr. S. D. Shinde	Prashant Publication, Jalgaon	2020	978-93-89493-20-7
12	Instrumentation: Paper-II, S. Y. B. Sc. (SavitribaiPhule Pune University)	Dr. Pingale , <b>Dr. M. K. Deore</b> , S.S. Bandgar, Dr. Kalange	PrashantPublication, Jalgaon	2020	978-93-89400-00-0
13	Mathematical Physics-II T.Y.B.Sc., Sem-I	<b>Deore M. K.</b> ,Bhadane M.S Sninde S.D.,Sarode M., Patil P.V.,Mogal G.J.,Talware R.V.,PatilSandip	Prashant Publication, Jalgaon kopykitab.com	2021	978-93-91391-99-7
14	Classical Mechanics T.Y.B.Sc., Sem-I	<b>Deore M. K.</b> , Bhadane M.S Sninde S.D.,Sarode M., Patil P.V.,Mogal G.J.,Talware R.V.,PatilSandip	Prashant Publication, Jalgaon	2021	978-93-91391-20-1
15	Electrodynamics T.Y.B.Sc., Sem-I	<b>Deore M. K.</b> , Bhadane M.S Sninde S.D.,Sarode M., Patil P.V.,Mogal G.J.,Talware R.V.,Patilsandip	Prashant Publication, Jalgaon	2021	978-93-91391-12-6
16	Atomic and Molecular Physics T.Y.B.Sc., Sem-I	<b>Deore M. K.</b> ,Bhadane M.S Sninde S.D.,Sarode M., Patil P.V.,Mogal	Prashant Publication, Jalgaon	2021	978-93-91391-28-7

		G.J.,Talware R.V.,Patilsandip			
17	Computational Physics T.Y.B.Sc., Sem-I	<b>Deore M. K.</b> , Bhadane M.S Sninde S.D.,Sarode M., PatilP.V.,MogalG.J.,Tal ware R.V.,PatilSandip	Prashant Publication, Jalgaon	2021	978-93-91391- 36-2
18	Elements of Material Science	<b>Deore M. K.</b> , Bhadane M.S Sninde S.D.,Sarode M., Patil P.V.,Mogal G.J.,Talware R.V.,PatilSandip	Prashant Publication, Jalgaon	2021	978-93-91391- 44-7
19	Practical Physics Hand Book,,	<b>M. K. Deore</b> , V.G. wagh	Success Publication, Pune	2015	978-93-8526- 23-7
20	Elements of Material Science,,	<b>M. K. Deore</b> , G.H. Jain,V.G. wagh	Success Publication, Pune	2016	ISBN-978-93- 5158-381-3,
21	Gas sensing Performance of Undoped (Pure) and Doped ZnO Thick films	<b>M. K. Deore</b>	Lambert Publication	2016	978-3-659- 90522-3

#### 16. Editor :

- i) **Associate Editor**, International Journal of Chemical and Physical Sciences, 319-6602
- ii) **Editor of Souvenir**: A Two Day State Level Conference On Thin and Thick Films (Deposition, Characterizations and Applications)
- iii) **Editor of Souvenir**: A Two Day National Conference on Emerging Trends in Nano science and Nanotechnology
- iv) **Special Issue Editor**: Special Issue – NCETNN, Dec-2014, International Journal of Chemical and Physical Sciences, ISSN:2319-6602 IJCPS Vol.3, Special Issue – NCETNN Dec-2014
- v) **Editor**- NCETNNT-2014 , **Conference Proceeding**, [ISBN-978-81 931219-1-7], Of, A Two Day National Conference On Emerging Trends In Nano science And Nanotechnology On 23 – 24 December 2014
- vi) **Editor**: Book of Abstract, International Conference on Advances in Functional Materials, Jan .2018
- ix) **Editor**- Fundamentals of materials science, ISBN-978-81-931219-5-5, Published by : Arts, Science And Commerce College, Ozar (MIG),

#### 17. Research Papers Published: 36 (List of Publication : Annexure : A)

Sr. No.	Details	Total Publications
1	International Reputed and Reviewed Journals	29
2	International/ National Conference Proceedings	04
3	International Books Series	03

## A. Published papers in International Reputed and Reviewed Journals: 29

Sr. No.	Name of Authors	Title of the paper	Name of Journal /Year /Page No.	Year	ISSN/ ISBN No.	Impact Factor
1	M. K. Deore, V. B. Gaikwad, S. D. Shinde, N.K. Pawar, D.D. Kajale, G H Jain	Preparation and Study the Electrical, Structural and Gas Sensing Properties of ZnO Thick Film Resistor	<b>Sensors &amp; Transducers Journal</b> , Vol. 119, Issue 8, Aug.2010, pp. 117	Aug. 2010	ISSN(E): 1726-5479 ISSN (P) : 2306-8515	0.987
2	M. K. Deore, V. B. Gaikwad, R.L.Patil, S. D. Shinde, N.K. Pawar, D.D. Kajale, G H Jain	Effect of Ni doping on gas sensing performance of ZnO thick film resistor”,	<b>Sensors &amp; Transducers Journal</b> , Vol. 112, Issue 11, , pp. 143-157,	November 2010	ISSN(E): 1726-5479 ISSN (P) : 2306-8515	0.987
3	Deore, M. K	Physical, Electrical Properties and Gas Sensing Performance of Pure and NiO-Modified ZnO Thick Films”	<b>Sensor letters</b> , Volume 11, Number 10, , pp. 1919-1924.	October 2013	ISSN (Online): 1546-1971	1.5
4	M. K. Deore, G. H. Jain	Studies on Ethanol Gas Sensing Properties of Al <sub>2</sub> O <sub>3</sub> -doped ZnO Thick Films	<b>Petroleum Science Research (JPSR)</b> , Volume 3 Issue 2, , pp.60-67,	April 2014	ISSNOnline 2168-5533, ISSN, Print: 2168-5517	0.1493
5	M. K. Deore, G. H. Jain	<u>Synthesis, characterisation and gas sensing application of nanoZnO material</u> ’ .	<b>Int. J. of Nanoparticles</b> , Vol.7, No.1, and pp.57 -72	2014	ISSNOnline: 1753-2515, Print : 1753-2507	0.13
6	M. K. Deore, N. U. Patil,	Synthesis of nanoZno by Chemical Route,	<b>International Journal of Chemical and Physical Sciences</b> , 2014	Dec 2014	ISSN: 2319-6602	1.0289
7	M. K. Deore	Studies on Physical and Electrical Characterization of Al <sub>2</sub> O <sub>3</sub> -ZnO Composite Material and its Thick Films,	<b>International Journal of Science and Research</b> Volume 4 Issue 11, , pp.2240-2245	November 2015	ISSN (Online): 2319-7064	5.611
8	M. K. Deore	Effect of NiO Doping on Structural Properties of ZnO”,	<b>International Journal of Science and Research</b> Volume 5 Issue 2, 1143 - 1146 -,	February 2016,	<b>ISSN (Online): 2319-7064</b>	5.611.
9	M. K. Deore	Effect Of NiO Addition On Morphological And Electrical Properties Of ZnO Thick Films”,	<b>Research Journey, Multidisciplinary International E-Journal</b> , Special Issue-I, ,pp.55-60,	Feb. 2016	ISSN: 2348-7143	0.676
10	M. K. Deore, V. B. Gaikwad, G. H. Jain	Role of CuO–ZnO Heterojunctions in Gas Sensing Response of CuO-ZnO Thick Films,	<b>Journal of Physical Science and Application</b> 6 (2) (2016) 51-60	2016	ISSN:2159-5348	0.673
11	M. K. Deore	Effect of CuO loading on Structural Properties of ZnO	<b>International Journal of Science and Research</b> Volume 5 Issue 6, June 2016-,	June 2016	ISSN (Online): 2319-7064	6.14

12	M. K. Deore	Gas Sensing Performance of Al <sub>2</sub> O <sub>3</sub> Activated ZnO Thick Films,	<b>Journal of Advanced Physics</b> Vol. 5, pp. 1–7	2016	ISSN: 2168-2003.	1.014
13	M. K. Deore	Effect of CuO - Doping on Morphological and Electrical Properties of ZnO Thick Films”	<b>International Journal of Chemical and Physical Sciences,</b> Vol. 5, No,-4,	Jul-Aug 2016	ISSN: 2319-6602	1.0289
14	M. K. Deore	Studies on Structural Properties of the Spinel Phase ZnCr <sub>2</sub> O <sub>4</sub> Synthesized by Mechanochemical Method	<b>International Journal of Chemical and Physical Sciences,</b> Vol 7, Special Issue 12 ICAFM (Part II), Pages: 406-414	March 2018	ISSN: 2319-6602	1.0289
15	V.G. SHINDE, V. B. GAIKWAD, M. K. DEORE	Synthesis of Lanthanum Oxide (La <sub>2</sub> O <sub>3</sub> ) Nanoparticles by hydrothermal technique and studies its Physical Properties	<b>International Journal of Chemical and Physical Sciences,</b> Vol 7, Special Issue 12 ICAFM (Part II) Pages: 669-674	March 2018	ISSN: 2319-6602	1.0289
16	N U PATIL, J S JADHAV , M. K. DEORE, V B GAIKWAD, G H JAIN	Synthesis, Characterization And Performance Of Pure And Modified (Ba <sub>0.9</sub> Sr <sub>0.1</sub> )(Sn <sub>0.9</sub> Ti <sub>0.1</sub> )O <sub>3</sub> Thick Film Resistor As A Gas Sensor	<b>International Journal of Chemical and Physical Sciences,</b> Vol 7, Special Issue 12 ICAFM (Part II), Pages: 616-625	March 2018	ISSN: 2319-6602	1.0289
17	P. D.HIRE, V. B. GAIKWAD, M. K. DEORE, G.H. JAIN	Synthesis of nano crystalline (Sn <sub>0.5</sub> Ti <sub>0.5</sub> )O <sub>2</sub> and used as a Gas Sensor	<b>International Journal of Chemical and Physical Sciences, Vol 7, Special Issue 12 ICAFM (Part II), Pages: 512-518</b>	March 2018	ISSN: 2319-6602	1.0289
18	M. K. DEORE, V B GAIKWAD, D. D. Kajale, G H JAIN	Effect of Surface Modification by CuO on Surface Morphology, Electrical Properties and Gas Response of ZnO Thick Films	<b>Sensor letters,</b> Vol. 17, Page No.968–976,	2019	SSN: 1546-198X (Print): EISSN: 1546-1971 (Online)	0.5
19	AB Chavan, AB Gawande, VB Gaikwad, GH Jain, M K Deore	<u>Hydrothermal synthesis and luminescence properties of Dy<sup>3+</sup> doped SrMoO<sub>4</sub> nano-phosphor</u>	Journal of Luminescence 234, 117996	2021	ISSN: 0022-2313	3.18
20	G. H. Jain, V. B. Gaikwad, D. D. Kajale, R. M. Chaudhari, R. L. Patil, N. K. Pawar, M.K. Deore and L. A. Patil	Gas Sensing Performance of pure and modified Barium Strontium Titanate Thick Film Resistors	<b>Sensors and Transducers,</b> 90 (2008) 160-173.	2008	ISSN(E): 1726-5479 ISSN (P) : 2306-8515	0.987
21	G. H. Jain, V. B. Gaikwad, D. D. Kajale, R. M. Chaudhari, R. L. Patil, N. K. Pawar, M.K. Deore and L.	Studies on Gas Sensing Performance of Pure and Surface Modified SrTiO <sub>3</sub> Thick Film Resistors	<b>Sensors and Transducers,</b> 6 (2009) 57-68.	2009	ISSN(E): 1726-5479 ISSN (P) : 2306-8515	0.987

	A. Patil					
22	V. B. Gaikwad, R. L. Patil, <b>M. K. Deore</b> , R. M. Chaudhari, P. D. Hire, S. D. Shinde, G. H. Jain	Gas Sensing Properties of Pure and Cr Activated WO <sub>3</sub> Thick Film Resistors	<b>Sensors &amp; Transducers Journal</b> , Vol. 120, Issue 9, September <b>2010</b> , pp. 38-52,		ISSN(E): 1726-5479 ISSN (P) : 2306-8515	0.987
23	N. K. Pawar 1, D. D. Kajale 2, G. E. Patil 2, V. G. Wagh 3, V. B. Gaikwad 4 , <b>M. K. Deore</b> and G. H. Jain	Nanostructured Fe <sub>2</sub> O <sub>3</sub> thick film as an ethanol sensor	<b>International Journal on Smart Sensing and Intelligent Systems</b> , vol. 5, NO. 2, , p441, ,	June <b>2012</b>	ISSN: 1178-5608	1.13
24	N.U. Patil, V.B.Gaikwad, P.D.Hire, R.M.Chaudhari, <b>M. K. Deore</b> , G. H. Jain	Pure and Cupricated BaSnO <sub>3</sub> thick film resistor: Synthesis, Characterization and studies on its gas sensing performance	<b>International Journal on Smart Sensing and Intelligent Systems</b> , Vol. 6, No. 1, pp. 433 – 447,	Febru ary <b>2013</b> ,	ISSN: 1178-5608,	1.13
25	N. U. Patil, V. B. Gaikwad, P. D. Hire, R. M. Chaudhari, <b>M. K. Deore</b> , G. H. Jain,	Synthesis and Characterization of Pure and Al Modified BaSnO <sub>3</sub> Thick Film Resistor and Studies of its Gas Sensing Performance,	<b>Sensors and Transducers</b> , Vol. 149, No. 2, pp. 69-75.	Februa ry <b>2013</b> ,	ISSN(E): 1726-5479 ISSN(P): 2306-8515	0.705.
26	S. S. Shendge, P. B. Koli, G. H. Jain, V. B. Gaikwad, 2M. K. Deore	Hydrothermally Synthesized ZnO-NiO Binary Oxide ThinFilms for Gas Sensing Application	<b>Heritage Research Journal   Volume 71, Issue 11,   Page No. 88</b>	<b>2023</b>	<b>ISSN No: 0474-9030</b>	
27	S. S. Shendge, P. B. Koli, G. H. Jain, V. B. Gaikwad, 2M. K. Deore	Synthesis and Characterizations of NiO Nanoparticles Using Hydrothermal Approach	<b>Journal of Xi'an University of Architecture &amp; Technology Volume XV, Issue 12, Page No: 242</b>	<b>2023</b>	<b>ISSN No : 1006-7930</b>	
28	Sagar Hiranman Mane, Madhavrao Keshavrao Deore	A Review On: Synthesis, Characterizations and Applications of Zn <sub>2</sub> SnO <sub>4</sub>	<b>International Journal of Scientific Development and Research (IJS DR)  Volume 8 Issue 7</b>	<b>July 2023</b>	<b>ISSN: 2455-2631</b>	
29	Sagar Hiranman Mane, Madhavrao Keshavrao Deore, Tushar Satish Wagh	Hydrothermally Synthesized Co <sub>2</sub> SnO <sub>4</sub> Nanoparticles for Detection of Ethanol Gas	International Journal for Research Trends and Innovation <b>IJRTI   Volume 8, Issue 7  </b>	<b>2023</b>	<b>ISSN: 2456-3315</b>	

### B: Research papers published as a Chapter (Articles) in International Books Series: 03

Sr. No.	Authors	Name of chapter	Publisher	Type of Book/National/ International/local publishers	ISBN/ISSN NO.
1	V. B. Gaikwad, <b>M. K. Deore</b> , S. D. Shinde, P. K. Khanna, D. D. Kajale, D. N. Chavan, G. H. Jain	Studies on Gas Sensing Performance of Pure and Nano Ag Doped ZnO Thick Film Resistors	Recent Advances in Sensing Technology, Volume 49 of Lecture Notes in Electrical Engineering, ISSN-2194-8402, ISBN-978-3-642-32179-5. Springer, 2009, LNEE 49, pp 293-308,	International publishers,	ISSN-2194-8402, ISBN-978-3-642-32179-5. 2009



2	<b>M. K. Deore</b> , V. B. Gaikwad, N.U.Patil, P.D.Hire, R.M. Chaudhari, V.G.wagh, G. H. Jain,	Formulation, Characterization and LPG-Sensing Properties of CuO-Doped ZnO Thick Film Resistor”,	Advancement in Sensing Technology, Smart Sensors, Measurement and Instrumentation, Springer Berlin Heidelberg, Volume 1, 2013, pp 283-298,	International publishers,	ISBN-978-1-4577-0168-9.
3	P. D. Hire, V. B. Gaikwad, N. U. Patil, <b>M. K. Deore</b> , G. H. Jain	Studies of Microstructure Properties and Gas Sensing Performance of (Sn <sub>0.3</sub> Ti <sub>0.7</sub> ) O <sub>2</sub> Thick Film Resistors”	Sensing Technology: Current Status and Future Trends, Verlag: Springer International Publishing ,2014, Seite 209-230.,	International publishers,	ISSN: 978-3-319-02318-2.

### C: Full Paper published in Conference Proceedings: 04

Sr. No.	Authors	Title of the Paper	Title of Proceeding	ISSN/ISBN	Place
1	<b>M. K. Deore</b> , V. B. Gaikwad, G. H. Jain	“Effect of nano Ag on Gas Sensing Performance of ZnO Thick Films”,	<b>IEEE, Conference Publications(2008)</b>	ISSN:547 – 552, ISSN-978-1-4244.	<b>3<sup>rd</sup>International Conference on Sensing Technology(ICST-2008),Tainan, Taiwan</b>
2	<b>M. K. Deore, V. B. Gaikwad, G. H. Jain</b>	“LPG Gas Sensing Properties of CuO Loaded ZnO Thick Film Resistors”,	<b>IEEE,Conference Publications(2011)</b>	ISSN-978-1-4577.	<b>Fifth International conference on sensing technology, Palmer Stone North,</b>
3	<b>M. K. Deore</b> , V. B. Gaikwad, G. H. Jain,”	Synthesis and Physical Characterization of nanoZnO particles	<b>National Conference on Nanomaterials: Applications and Properties, publication.NCNA P-2013, Proceeding (Feb2013)</b>	ISBN-978-81-924820-3-3	Sonai. A, Nagar, India
4	<b>M.K .Deore</b>	Role of Nanostructure in Gas Sensing Application-	<b>Nano Materials Imperatives in the new Millanium ( NINM-2016)</b>	ISBN-978-93-89993-95-6.	S.N.G.B. College, Chandwad

### 18. Paper Presented in International/ National/ State/ University Conference/Workshop

(2008-2020): Total : 33 (List of presentation : Annexure : B)

International	National	State	Regional
12	12	07	02

#### Research Papers presented abroad:

- i. **Taiwan (2008)** (International Conference on Sensing Technology at Tainan)
- ii. **New Zealand (2011)** (International Conference on Sensing Technology at Palmerstone North.

iii. America, Stony Brook University, Long Island, New York State, USA  
(2015)(International Conference on Functional materials)

19: Completed Research Projects : 02

Sr. No.	Title of project	Name of the Funding Agency	Amount sanctioned	Duration	Remark
1	Gas sensing performance of ZnO-CuO composite thick film resistors	BCUD SavitribaiPhule Pune Univ. Pune	200 000	Two years	Completed
2	Gas sensing performance of ZnO thick film resistors	University Grand Commission	90,000	Two years	Completed

20. Organization of workshop/ Conference: 12

Sr. No.	Position Held	Name of the conference	Place	Year	No. of Abstract Received
1	Coordinator	A Two Day State Level Conference On Thin and Thick Films (Deposition, Characterizations and Applications)	Arts, Sci. & Com. College, Ozar (Mig)	March 2013	30
2	Organizing Secretary	Emerging Trends on Nano Materials and Nanotechnology	Arts, Sci. & Com. College, Ozar(Mig)	Dec. 2014.	63
3	Co-Organizer	One Day Work Shop on Revised Syllabi of S.Y. B. Sc	Arts Sci. & Com. College, Ozar(Mig)	Jan. 2013	-
4	Organizing Secretary	A Two Day International level Conference on International Conference on Advances in Functional Materials (ICAFM-2018)	K.T.H.M. College, Nashik	Jan . 2018.	201
5	Head	Work shop on S.Y. B. Sc. Syllabus revision	K.T.H. M. College, Nashik	18 Jan. 2020	-
6	Head	Work shop on Electric motor Repairing	K.T.H. M. College, Nashik	3 Feb. 2020-	-
7	Head	Solar panel Installation and Maintenance	K.T.H. M. College, Nashik	4 Feb. 2020	-
8	Head and Co convener	Work shop on Workshop on Astronomy and Astrophysics	K.T.H. M. College, Nashik	20-21 Aug. 2020	
9	Organizer	One day National Webinar on “ Strategic to crack competitive exams in Physics”	K.T.H. M. College, Nashik	5 June 2021-	
10	Organizing Secretary	National Conference on Material Science	K.T.H. M. College, Nashik	Aug. 30-31, 2021	25
1	Head	National programme on capacity Building in Physics	K.T.H. M. College, Nashik	21 to 25 Aug.2021	-
2	Head	Work shop on CCTV installation and Maintenance	K.T.H. M. College, Nashik	Feb. 2023	

**21: Training courses : 03**

Sr. No.	Title of the Programme	Name of Agency & Venue	Date	Duration
1.	The Soft Skills Development Programmes for Trainers	University of Pune, Sub Centre, Nashik	5/7-14/7/2007	10 Days
2.	Trainingsprogrammes on Interacting Teaching Methodology	Jayesh Vision, Nasik	2/6-11/6/2011	10 Days
3.	Short term on TrainingProgramme Engineering Physics	Indian Institute of Technology , Mumbai	8-18 Dec. 2015	2 week

**22. Participation in College Activities :(2011-12 to 2022-2023) :**

Sr. No.	Nature of committee	Nature of Committee	College
1	Coordinator	FIST( Funds for Improvement under Science and Technology).	K.T.H.M. College, Nashik
2	Coordinator	Academic Linkage and consultancy Committee.	K.T.H.M. College, Nashik
3	Member	Admission Committee member	K.T.H.M. College, Nashik
4	Coordinator	IQAC (Internal Quality Assurance Cell)	A.S.C. College, Ozar(Mig)
5	Coordinator	NAAC	A.S.C. College, Ozar(Mig)
6	CEO	College Examination Officer ( 2012-13 to 2014-15)	A.S.C. College, Ozar(Mig)
7	Nodal Officer	College- for UGC	A.S.C. College, Ozar(Mig)
8	Assistant Coordinator	NAAC	A.S.C. College, Ozar(Mig)
9	Coordinator	Soft Skills Development Program	A.S.C. College, Ozar(Mig)
10	Coordinator	NAAC criteria I	A.S.C. College, Ozar(Mig)
11	Member	IQAC (Internal Quality Assurance Cell)	A.S.C. College, Ozar(Mig)
12	Coordinator	Grievances Redressal Cell	A.S.C. College, Ozar(Mig)
13	Coordinator	Environmental Awareness	A.S.C. College, Ozar(Mig)
14	Member	Planning board	A.S.C. College, Ozar(Mig)
15	Member	Annual Gathering committee	A.S.C. College, Ozar(Mig)
17	Member	College research, Extension, Linkage and Avishkar	A.S.C. College, Ozar(Mig)
18	Member	College research, Extension, Linkage and	A.S.C. College, Ozar(Mig)

		Avishkar	
19	Member	College research, Extension, Linkage and Avishkar	A.S.C. College, Ozar(Mig)
20	Member	Value Education Committee	A.S.C. College, Ozar(Mig)
21	Member	College Website Committee	A.S.C. College, Ozar(Mig)
22	Member	Purchase committee	A.S.C. College, Ozar(Mig)

### 23. Participation in University Examination Activities :( 2011-12 to 2022-2023)

Sr. No.	Name of bodies/committees	Nature of Activity	Year	Place
1	Coordinator	M.Sc. Practical University, SPPU, Pune	Oct . 2022-23	SPPU, Pune
2	Paper Setter	M. Sc.	Oct-2022	SPPU, Pune
3	Paper Setter	M. Sc.	May-2022	SPPU, Pune
4	Paper Setter	M. Sc.	May-2021	SPPU, Pune
5	Paper Setter	M. Sc.	Oct. 2021	SPPU, Pune
6	Paper Setter	T.Y.B.Sc.	Oct. 2021	SPPU, Pune
7	Chairman	M.Sc. Theory (MCQ)Examination, SPPU, Pune	March . 2020	SPPU
8	Chairman	M.Sc. Theory (MCQ)Examination, SPPU, Pune	Sep. 2020	SPPU
9	Chairman	M.Sc. Theory Examination, SPPU, Pune	March 2020	SPPU, Pune
10	Chairman	M.Sc. Theory Examination, SPPU, Pune	Oct. 2019	SPPU, Pune
11	Paper setter and Moderator	M.Sc. Theory Examination, SPPU, Pune	Oct. 2019, March 2020	
12	Coordinator	M.Sc. Practical University, SPPU, Pune	Oct . 2018-19	SPPU, Pune
13	Chairman	T.Y. B.Sc. Theory Examination, SPPU, Pune	Oct./ March-2017-18	SPPU, Pune
14	Chairman	T.Y. B.Sc. Theory Examination, SPPU, Pune	Oct.-2017-18 March-2017-18	SPPU, Pune
15	Flying Squad Committee member	Flying Squad Committee for University Examination	April-2010, March- 2019	Nasik Garmin
16	Coordinator	T.Y. B.Sc. Practical, Savitribai Phule Pune Un	March,2016-17 Pune	Nashik
17	Custodian	Savitribai Phule Pune University Examination	2012-13 to 2014-15	Arts Sci. & Comm. College, Ozar(Mig)
18	Paper setter and Moderator	T. Y. B. Sc, M. Sc. Savitribai Phule Pune University Examination	2012-13 to 2014-15, 12/11/2013, 02/05/2015	SavitribaiPhule Pune Univ. Pune

	Senior Supervisor	Savitribai Phule Pune University Examination	Oct. 2015, 13 April 2016,	L.V.H.College, Nashik, V.N.Naik College, Nashik
	CEO(College Examination Officer)	Savitribai Phule Pune University Examination	2012-13 to 2014-15	Arts Sci. & Comm. College, Ozar(Mig)

#### 24. Contribution in various University committees

Sr. No.	Name of Committee	Nature of committee	Nature of Work	Place	Date
1	Selection Committee Member	Subject Expert	Senior College Interview	K.K. Wagh Education Society, Nashik,	18 /06/2010
2	Selection Committee Member	Subject Expert	Senior College Interview	M.G. Vidyamandir, Nashik,	11 /04/ 2010
3	Selection Committee Member	Subject Expert	Senior College Interview	ShyadriShikshanMandal, Karanjali, Peth, Nashik	2013
4	Selection Committee Member	Subject Expert	Senior College Interview	M.G. Vidyamandir, Nashik	29/11/2016
5	Selection Committee Member	Subject Expert	Senior College Interview	SNJB's Late SauKantibai Jain College of Engineering, Chandwad	05/08/2016
6	Selection Committee Member	Subject Expert	Senior College Interview	K.K. Wagh Education Society,Nashik,	27 /07/ 2017
7	Selection Committee Member	Subject Expert	Senior College Interview	Late G. N. Sapkal College of Engineering,	09/07/2017
8	Selection Committee Member	Subject Expert	Senior College Interview	Deola Education Society, Deola	10/06/2017
9	Selection Committee Member	Subject Expert	Senior College Interview	M. S.G. College, Malegaon	07/03/2018
10	Chairman	Subject Expert	Laboratory Inspection of S.Y. /T.Y. B. Sc.	Dahegaon(N), Tal-Newasa, A'Nagar,	27/01/2018
11	Member	Subject Expert	CAS	K.T.H. M. College, Nashik, 15/04/2018	15/04/2018
12	Selection Committee Member	Subject Expert	Research laboratory	Inspection: H.P.T. College, Nashik,	14/06/2018
13	Selection Committee Member	Subject Expert	Senior College, Interview:	AdivasiSevaSamiti, Nashik,	28/11/2018
14	Selection Committee Member	Subject Expert	Student Research Project:	SangamnerNagarPalika Arts, Malpani Com. Sci. College,	16/02/2019
15	Member	Subject Expert	Ph. D. synopsis submission:	M. S. G. College Malegaon,	April 2019

16	Selection Committee Member	Subject Expert	Senior College Interview	M.V. P. Samaj, Nashik,	13,14/06/2019
17	Selection Committee Member	Subject Expert	Senior College Interview	G. T. Patil; College, Nandurbar,	03/08/2019
18	Selection Committee Member	Subject Expert	Senior College Interview	Bhonsala Military College, Nashik	24/12/2019
19	Selection Committee Member	V. C. Nominee and Subject Expert	senior college interview	Karmavir R. S. Wagh Education Institute, Rajaram Nagar, Materewadi, Dindori on	28/07/2020.
20	Selection Committee Member	Subject Expert	senior college interview	M.V. P. Samaj, Nashik,	05/07/2021

### 25: Special Lectures Delivered at College/State Events:

Sr. No.	Title	Programme	Place	Date
1	Energy Conservation	N.S.S. Winter Camp	Jaulke, Tal. Dindori	2011
2	Positive Attitude	Soft Skills Development Programme	Arts Sci. & Comm. College, Ozar(Mig)	2011-12
3	Positive Attitude	Soft Skills Development Programme	Arts Sci. & Comm. College, Ozar (Mig),	2012-13
4	Science and Technology	Competitive Examination Guidance cell	Arts Sci. & Comm. College, Ozar (Mig),	2012
5	Modernization and Science	Competitive Examination Guidance cell	Arts Sci. & Comm. College, Ozar (Mig)	2013
6	Positive Attitude	Soft Skills Development Programme	Arts Sci. & Comm. College, Ozar (Mig),	2013-14
7	Positive Attitude	Soft Skills Development Programme	Arts Sci. & Comm. College, Ozar (Mig),	2014-15
8	Positive Attitude	Soft Skills Development Programme	Arts Sci. & Comm. College, Ozar (Mig),	2015-16
9	Goal Setting	Soft Skills Development Programme	Arts Sci. & Comm. College, Ozar (Mig),	2016-17
10	Positive Attitude	Soft Skills Development Programme	K.K.WaghCollege, Pimalgaon(B)	2016-17
11	Material Science	State level conference	P V G College, Nashik,	Jan. 2019
12	Science and Technology	10 th Class students	SamajshriPrashant Hire High Scool, Satpur, Nashik	Oct.2019
13	Thin Film Technology	For 20 days Ph.D. course work on core	L.V.H. College, Nashik	21 Jan. 2020
14	XRD	Ph.D. course work on core	K.T.H.M. College Nashik	2021
15	Thin Film Technology	Ph.D. course work on core	K.T.H.M. College Nashik	2021

16	XRD	Ph.D. course work on core	M.S.G. College Malegaon Camp	2022
17	Thin Film Deposition Technique	Ph.D. course work on core	M.S.G. College Malegaon Camp	2022
17	XRD	Ph.D. course work on core	K.T.H.M. College Nashik	2023

**26. Reviewer for International Journals: Total research paper re reviewed:30 (Annexure-C)**

Sr. No.	Name of Journal	Sr. No.	Name of Journal
1	Sensor Letters,	7	Journal of Advanced Ceramics
2	Sensor Review	8	Allsensors Conference-2016
3	Journal of Nano engineering and Nano manufacturing	9	Allsensors Conference-2017
4	Nanocon 2014	10	Allsensors Confernce-2018
5	IEEE Sensors Journal	11	Allsensors Conference-2019
6	Journal of Advanced Physics	12	IEEE Sensors Conference

**27: Conference/Seminar/Workshop Attended/Participated: 33**

Sr. No.	Name of Seminars /Workshop	Agency	Place	Date	Duration
1	Use of Computer simulation and IT for physics teaching at UG level	A.S.C. College	Saikheda, Nashik	18Dec. 2006	1 Day
2	Revised syllabi of T.Y.B.Sc.	K.K.W. College	Pimpalgaon Nashik	27 Jan. 2007	1 Day
3	Workshop on AVISHKAR-08-09	KAANMS College	Satana, Nashik	8-9 Aug. 2008	1 Day
4	Nirmal Gram Niyojan	KTHM College	Nashik	18 Aug. 2008	1 Day
5	Syllabus Framing	HPT College	Nashik	17 Dec. 2008	1 Day
6	Connectivity between Uni. &College through online	KAANMS College	Satana, Nashik	23-24 Jan 2009	1 Day
7	Workshop on Academic &Research co-ordinator	BCUD	Pune	30 June 2009	1 Day
8	One Day Seminar For NSS Programme Officer	A.S.C. College	Ozar(Mig), Nashik	6 Dec. 2009	1 Day
9	Nano Technology	KPG College,	Igatpuri	11 Feb 2011	1 Day
11	Value education	A.S.C. College	Ozar(Mig), Nashik	15 Feb 2011	1 Day
12	Disaster Management	A.S.C. College	Ozar(Mig), Nashik	17-18 Feb 2011	2 Day
13	workshop on woman Entrepreneurship	A.S.C. College	Ozar(Mig), Nashik	6 Jan. 2012	1 Day
14	Interaction of Physics Teacher with DST Programme Advisory Committee	Dept. of Physics, Uni.	Uni. Pune, Pune	15 Sept. 2012	1 Day

		Pune			
15	Work shop on revised syllabi of F.Y.B.Sc.	KKW College	Pimpalgaon Nashik,	26 Dec. 2012	1 Day
16	workshop on woman Entrepreneurship	A.S.C. College	Ozar(Mig), Nashik	21 Jan . 2013	1 Day
17	workshop on Girls Personality Development	A.S.C. College	Ozar(Mig), Nashik	21 Jan. 2013	1 Day
18	one Day Work shop on Preparing on Competitive Examinations	A.S.C. College	Ozar(Mig), Nashik	23 Feb 2013	1 Day
19	Work shop on revised syllabi of S.Y.B. Sc.	A.S.C. College	Ozar(Mig), Nashik	1 March 2014	1 Day
20	State level Seminar on Preparation of NAAC Accreditation Report	SPPU, Pune	A.S.C. College , Ozar(Mig), Nashik	16 Jan. 2016	1 Day
21	Conference on National Assessment and Accreditation(NAAC)	SPPU, Pune	SavitribaiPhule Pune University, Pune	30 Nov. 2016	1 Day
22	Advance Tools and Technique in Teaching Learning	SPPU, Pune	K.T.H. M. College, Nashik	Jan.-2019	1 Day
23	Interest Exploration Meeting for Respond	SPPU, Pune	K.T. H. M. College, Nashik	July-2019	1 Day
24	Work shop on S.Y. B. Sc. syllabus revision	SPPU, Pune	K.T.H. M. College, Nashik	18 Jan. 2020	1 Day
25	Work shop on Electric motor Repairing	SPPU, Pune	K.T.H. M. College, Nashik	3 Feb. 2020	1 Day
26	Solar panel Installation and Maintenance	SPPU, Pune	K.T.H. M. College, Nashik	4 Feb. 2020	1 Day
27	One Day workshop on M. Sc. II Physics syllabus formulation and CBSC structure	SPPU, Pune	Department of Physics, SPP University , Pune	8 Feb. 2020	1 Day
28	National Webinar on " Synthesis Technique and Characterization of Material	SPPU, Pune	T. C. College of Arts, Science and Commerce, Baramati, Dist. Pune	24to 26-06-2020	03
29	Workshop on Astronomy and Astrophysics	SPPU, Pune	K.T.H. M. College, Nashik	20-21 Aug. 2020	02
30	National Webinar on " Functional Material'	-	Jagat Arts, Com. And I. H. P. Sci. College, Goregaon, Gondia on	21 Feb. 2021	01
31	Webinar on "Progamme outcomes, specific outcome and course outcomes	UGC Pramarch scheme	K.T.H. M. College, Nashik	22 June 2021	1 Day



32	National Webinar on” Strategies to crack competitive exams in Physics”	-	K.T.H. M. College, Nashik	5 June 2021	1 Day
31	Webinar on Scientific writing: Publishing ethics, Effective peer review and increasing Research impact.	Taylor and Francis Group	CSIR- National institute of Science communication and policy research	22 June 2021	1 Day
32	Two-Day Online “National conference on advance trends in material” organized by	K.T.H. M. College, Nashik	Nashik	30th Aug 2021 - Tuesday, 31th Aug 2021,	2Day
33	<b>Participated Five Days:</b> Capacity Building Program In Physics organized by K.T.H. M. College, Nashik	K.T.H. M. College, Nashik	Nashik	23 August to 27 August 2021	5Day

### 28. Development of e-Content on Google SlideShare:

Sr. No.	Name of the subject	Class	Details of the URL/website where available	Total Views
1	Material Science (Ceramics)	B. Sc./M.Sc.	Google Slide Share <a href="https://www.slideshare.net/DrMadhavraoDeore/ceramic-materials-1">https://www.slideshare.net/DrMadhavraoDeore/ceramic-materials-1</a>	9262
2	Lasers	B. Sc./ M.Sc.	Google Slide Share <a href="https://www.slideshare.net/DrMadhavraoDeore/presentation-laser">https://www.slideshare.net/DrMadhavraoDeore/presentation-laser</a>	4671
3	Thin Film Gas Sensor	M. Sc	Google Slide Share <a href="https://www.slideshare.net/DrMadhavraoDeore/thin-film-gas-sensor">https://www.slideshare.net/DrMadhavraoDeore/thin-film-gas-sensor</a>	44
4	Solid State Physics	T.Y. B. Sc.	YouTube( 30 Videos)	-
5	LASER	T.Y. B. Sc.	YouTube( 30 Videos)	-

### 29. Election Duty

Sr. No.	Nature of Duty	Constitution(Tahasil)	Election	Year
1	Presiding Officer (PRO) (Election)	Niphad	JilaParishad Election	2012
2	Presiding Officer (PRO) (Election)-	Nashik-21	Parliamentary Election	2019
3	Presiding Officer (PRO) (Election)-	Deolali	Vidhansabh Election	2019

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