CURRICULAR VITAE

♣ Name: Dr. NITIN BABULAL SONAWANE

Usignation: Assistant Prof. in Physics

♣ Institute: Dept. of Physics,

Karm. A.M. Patil Arts, Comm., and Kai.

Annasaheb N.K.Patil

Science Sr. College, Pimpalner, Tal. Sakri, Dist. Dhule (M/S)

Mob.9850145509

Email: sonawanenitinb@gmail.com

Date of Birth : 17/08/1969

♣ Marital Status : Married

♣ Citizenship : Indian

4 Sex : Male

Educational Qualifications :

Education	Board/University	Year	Subjects	Marks (%)
Ph.D.	North Maharashtra University, Jalgaon	2015	Physics	A-Grade
M. Phil.	North Maharashtra University, Jalgaon	2009	Physics	A-Grade
M. Sc.	University of Poona, Pune	1993	Physics	67.2
B. Sc.	University of Poona, Pune	1989	Physics	70
H. S.C.	Pune, Board	1986	P, C, M, B	65.17
S.S.C.	Pune, Board	1984	General	72.28

College Academic and Administrative Committees: Worked as member of various committees, like, Career counseling, Study visit, tour, Field work, Students seminar, Quiz, Debate, Avishkar, Cultural, sports, Water, Tree conservation, Blood donation, Alumni meet, NAAC,IQAC,API, Coordinator/member of Avishkar, member of organization committees in conference/ workshop/seminar, Admission, Academic, Examination committees, Examination Reforms, Examiner Internal and Examinations, Syllabus restructuring Workshops etc.

Research Publication: More than 17 Research papers Published in Reputed International and National Journals.

Paper Presented/Participated in Conferences: More than 26 International/National/State level conferences have been attended/paper presented in various International/National conferences/Workshops, Books Published: 3.

Research Degree:

Degree	Title	Date of award	University
M.Phil	"Gas Sensing Performance of Pure and Modified WO ₃ Thick Film Resistors"	6 th April- 2009	North Maharashtra University Jalgaon
Ph.D.	"Cadmium Based N-Type Semiconductor As a heterojunction Partner with P- Type Inorganic/Organic Materials Towards LPG Sensing Applications"	31 st July2015	North Maharashtra University Jalgaon

Post held after appointment at this institution

Designation	Donautmont	Date of actua	Grade	
Designation	Department	From	To	Graue
Assistant Professor	Physics	14/09/1993	01/01/2006	8000-275- 13500
Assistant Professor	Physics	01/01/2006	06/04/2014	15600-39100 AGP -6000
Assistant Professor	Physics	06/04/2014	06/04/2019	15600-39100 AGP -7000
Assistant Professor	Physics	06/04/2019	Till now	15600-39100 AGP -8000

Period of teaching experience:

PG	nil	UG classes (in	28 Years
classes:		years):	

Research Experience excluding years spent in M.Phil /Ph. D.: 12 Yrs.

Field of specialization under the subject /Discipline: Physics

(Thin Film, Nanotechnology, Crystal Growth)

Academic Staff college orientation /Refresher course

Name of Course	Place	Duration	Sponsoring agency
Orientation Course	Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.	01/02/2010 to 27/02/2010 = 28 Days.	UGC, New Delhi
Refresher Course	Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.	05/03/2009 to 25/03/2009 = 21 Days.	UGC, New Delhi
Refresher Course	Academic Staff College, University of Pune, Pune	01/02/2001 to 28/02/2001 = 28 Days.	UGC, New Delhi
Refresher Course	Savitribai Phule University, Pune (Faijpur)	25/09/2018 to15/10/2018 = 21day's.	UGC, New Delhi
Faculty Development Programme	Visvesvaraya National Institute of Technology Nagpur	9/12/2013 to 13/12/2013	VNIT Nagpur
Faculty Development Programme	Savitribai Phule Pune University (Taloda)	22/12/2017 to28/12/2017	UGC, New Delhi
Faculty Development Programme	Ramanujan College, University of Delhi	20/04/2020 to 6/05/2020	UGC, New Delhi(HRD Ministry)
Faculty Development Programme	Ramanujan College, University of Delhi	06/09/2021 to 12/09/2021	UGC, New Delhi(HRD Ministry)
Two week Course	JKSA college, Nijampur and K.A.M.P College,Pimpalner	07/06/2021 to 21/06/2021	College affiliated to KBCNMU,Jalgaon

List of Publications

SR. NO.	Paper published in journals
1.	N. B. Sonawane, D. R. Patil, L.A. Patil
	"CuO-Modified WO ₃ Sensor for the Detection of a ppm level H ₂ S gas
	at Room Temperature"
	Sensors and Transducers Journal, Vol-93, Issue-6, June 2008, PP-82-91
2.	N. B. Sonawane, R.R.Ahire, K.V. Gurav, J.H. Kim, B.R. Sankapal.
	"CdS nanowires with PbS nanoparticles surface coating as room temperature liquefied petroleum gas sensor"
	Sensor and Actuators A, 216 (2014) 78-83 – (Impact Factor: 1.94)
3.	N. B. Sonawane, R.R.Ahire, K.V. Gurav, J.H. Kim, B.R. Sankapal.
	"PEDOT: PSS shell on CdS nanowires: Room temperature LPG sensor".
	Journal of Alloys and Compounds 592 (2014) 1-5. (Impact Factor: 2.72)
4.	S. J. Patil, K.S. Thakare, N. B. Sonawane, N.G.Deshpande, R.R.Ahire,
	"Role of Firing Temperature on Structural and Electrical Characteristics of Titania Thick film for Sensor Applications"
	Journal of Optoelectronics and Advanced Materials Vol-17, No.5-6 May-June 2015
5.	N.B.Sonawane, P.K.Baviskar, R.R.Ahire, Vibha H.Ojha, B.R. Sankapal.
	"Nanonecklace of CdO through Simple Solution Chemistry"
	Material Science in Semiconductor Processing 49 (2016) 81-83 (Impact Factor: 2.1)
6.	N. B. Sonawane, P.K.Baviskar, R.R.Ahire, B.R. Sankapal.
	"CdO neckless like nanobeads decorated with PbS nanoparticles:Room temperature LPG sensor"
	Material Chemistry and Physics 191 (2017) 168-172.

7.	S. J. Nandre, N. B. Sonawane , D.V.Sonawane, S.S.Sonawane and R.R.Ahire,
	"Non-Conventional Energy Sources For Rural Development of India"
	Pltinum-ISSN-2231-0096, Vol-6, No.4, Dec. 2016, pp-42-46
8.	S. J. Nandre, N. B. Sonawane, S.S.Sonawane and R.R.Ahire,
	"Pollution in Various Festivals in India and Creating Awareness to People"
	Ajanta -ISSN-2277-5730, English Part VIII, Jan. 2017, pp-145-152
9.	W.B.Shirsath, N. B. Sonawane,
	"Human Rights and Child Labour in India-Causes and Remedies"
	Vichar Manthan-ISSN-2347-9639, Vol-4, No.3, Issue-12, Sept-Dec. 2017, pp-81-85
10.	N. B. Sonawane, S. J. Nandre, S.S.Sonawane, R.R.Ahire,
	"India Towards Solar Energy Independence"
	Journal of research and Development-ISSN-2230-9578, Vol-8, No.4,
	Dec. 2017, pp-102-109
11.	Nandre S. J., Sonawane N. B. , Sonawane S.S., Ahire R.R
	"Role of Business for Development of Tribal"
	Journal of research and Development-ISSN-2230-9578, Vol-8, No.6,
10	Feb. 2018, pp-50-54
12.	Sonawane N. B., Kadam K.D.
	"Traditional and Scientific Use of Solar Energy for Peace"
	Journal of research and Development-ISSN-2230-9578, Vol-8,
	No.6, Feb. 2018, pp-55-58.

SR. NO.	Paper published in journals		
13.	N. B. Sonawane, D.B.Salunke, S.S.Sonawane, R.R.Ahire,		
	"Utilization of Solar Energy from Generation to Generation"-A Review		
	Ajanta-ISSN-2277-5730 Vol. VIII-Issue-I ,pp.126-132Jan-Mar.2019		
	(UGC Listed 40776) (Impact Factor:5.5)		

14.	N. B. Sonawane, S.J.Nandre, R.R.Ahire		
	Thin Film Characterization Techniques-A Theoretical Background		
	Research Journey, ISSN-2348-7143 Feb.2020 pp-5-8(I.F6.625)		
15.	S.J.Nandre, N. B. Sonawane, R.R.Ahire		
	"Role in Prevention of Corona Virus Infection"		
	Journal of Research and Development, Volume(10)Special issue(8)May-2020 ISSN No.2230-9578 (Impact Factor: 5.13)		
16.	H.S.Pawar, S.J.Nandre, N. B. Sonawane, S.D.Chavhan, R.R.Ahire		
	"Growth and Characterization of Cobalt Oxalate Crystal by Ager-Ager Gel Method"		
	IJCRT ISSN:2320-2882, Volume 9,Issu 4 April 2021, PP-1343-1348		
17.	H.S.Pawar, S.J.Nandre, N. B. Sonawane, R.R.Ahire,		
	"Physical and Optical Study of Cobalt Oxalate Single Crystal by Ager- Ager Gel Method"		
	Journal of Scientific Research, Volume 65, Issue 7, 2021, pp 58-60.		

List of Workshops/Conferences (National/International) attended and presented papers

Sr. No.	Workshops/ Conferences	Title of paper	Authors
1.	International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM- MDF-2014), held at Shivaji University, Kolhapur during January 13-15, 2014.	PEDOT: PSS and PbS Shell on CdS Nanowires: Room Temperature LPG Sensor.	N. B. Sonawane, R.R.Ahire, K.V. Gurav, J.H. Kim, B.R. Sankapal.
2.	International Conference on Nanomaterials and Applications- 2008 held at Shivaji University, Kolhapur during December 9- 11,2008	CuO-Modified WO ₃ Sensor for the Detection of a ppm level H ₂ S gas at Room Temperature	N. B. Sonawane, D. R. Patil, L .A. Patil

3.	National Conference on Nanomaterials Avenue 21-23 October 2013,K.R.T. Arts, B, H. Comm. And A. M. Science College,Nasik-2(M.S.)	Attended/Poster presented	
4.	National Conference on Indian Development In recent and Ideal Semiconductors for Novel Applications 6-7 Oct.2012 D.H .Agrawal, M.G.Agrawal Science, College, Nawapur (M.S.)	Attended/Poster presented	
5.	National Conference on Materials and Devices for Future Technology 7 Feb. 2011 North Maharashtra University, Jalgaon (M.S.)	Attended/Poster presented	
6.	Short term Training Program on Material Synthesis to Diverse Applications (MSPA-2013) 9-13 December 2013 Visvesvaraya National Institute of Technology, Nagpur (M.S.)	Attended	
7.	National Seminar on Physics and Technology of Sensors 3-5 2008 Department of Electronics Science, University of Pune.	Attended	
8.	National Seminar on Advanced In Nano Structured Materials and their applications 22-23 January- 2013,C.H.C.Arts, S.G.P.Comm., B.B.J.P. Science college Taloda,Dist-Nandurbar (M.S)	Attended	
9.	Materials And Its Applications 1-2 Feb 2013 Arts and Science College, Dondaicha, Dhule (M.S.)	Attended	
10.	National Seminar on Nanostructred Materials for Advanced technology 3-4 Oct. 2011,Karm.BhauraoPatil Mahavidyalaya, Pandharpur,Dist.Solapur(M.S.)	Attended	

11.	National Workshop on Advanced In Materials Processing 8- Mar.2014 School of Physical Sciences, North Maharashtra University, Jalgaon (M.S) National Workshop on Acquaintance Program of IUAC	Attended	
12.	30 April 2008 School of Physical Sciences, North Maharashtra University, Jalgaon (M.S)	Attended	
13	UGC Sponsored National Conference on Recent Development in Nanomaterials and Their Applications, Date 5 th -6 th February 2016, Departments of Electronics G.T.Patil Arts, Commerce and Science College, Nandurbar	Synthesis of CdS/PbS heterojunction film for LPG sensing at Room Temperature	N.B.Sonawane
14	National Conference on Biodiversity and Environmental Impact,24 December 2016, Smt N.N. Chaudhari Arts, Comm, and Science College, Kusumba	Non- Conventional Energy Sources For Rural Development of India	N.B.Sonawane
15	International Conference on Liberalization, Privatization and Globalization: Impact on Indian System- An Assesment ,Bhusaheb N.S. Patil Arts, and M.F.M.A. Commerce College, Dhule	Pollution in Various Festivals in India and Creating Awareness to people	N.B.Sonawane, S.J.Nandre
16	National conference on Non- conventional Energy Sources for Rural Development of India 6-Jan.2018, Organized by Dept. of Physics. Uttamrao Patil Arts, Comm. &Sci. College, Dahivel	India towards Solar energy Independence	N. B. Sonawane, S. J. Nandre, S.S.Sonawane, R.R.Ahire
17	National Conf. On Material Science: Advancement and Innovations, NCMSAI-2019, Dept. ofphysics, SSVPs, L.K.Dr.P.R.Ghogrey Science College, Dhule	Utilization of Solar Energy from Generation to Generation-A Review	N. B. Sonawane, D.B.Salunke, S.S.Sonawane, R.R.Ahire,

18	International Conference on Impact of COVID-19 Pandemic Related Lockdown: Present and Future(ICPRLPF- 20),Karm.A.M.Patil Arts,Comm. And Kai.Annasaheb N.K. Patil Science Sr.College, Pimpalner, May, 16-2020	Member of Organizing committee and Special Issue Editor	N.B.Sonawane
19	National webinar on Nanomaterials:Past, Present and Future Scenarios, organized by Dept.Of.Chemistry,Gokhale Education Society's, Arts,Comm.and Science College, Jawhar, Palghar, on 30/05/2020	Participated	
20	National webinar on New Horizons for E-Learning in Higher Education organized on 14-15/05/2020, S.G.Patil, College, Sakri.	Attended	
21	Inter-National webinar on Role of Advance Materials for Optoelectronics Devices (RAM-OD 2020) organized by S.G.Patil, Arts, Comm. And Science College, Sakri on 12/06/2020.	Attended	
22	National webinar on Research Methodology in Language and Literature in Digital Era,Adarsh College of Arts Nijampur Jaitane, Tal.Sakri, Dist.Dhule, On 7- 8/05/2020	Attended	
23	National webinar on Digital Transformation: classroom and LMS, organized by Surupsing Hirya Naik College of Education,Navapur, on 07/06/2020	Attended	

24	Webinar on COVID-19:Teaching Learning Challenges and opportunities in Indian Education System,29/06/2020 organized by Center for Continuing Education, Dr.B.R.Ambedkar,National Institute of Technology,	Attended
	Jalandhar	
25	State level Webinar on Rural Development Through Community Engagement, organized by S.G.Patil Arts, Science and Comm. College, Sakri, on 30/06/2020	Attended
26	Workshop on Curriculum Development in Physics at T.Y.BSc. (CBCS Pattern) on the behalf of KBCNMU, Jalgaon, organized by, S.I.Patil Arts,G.B.Patel Science and S.J.K.V.S. Commerce College, Shahada, on 15-16/05/2020	Attended

List of Book Publications:

	1		
01	OPTICS and LASERS:		
	T.Y.B.Sc., Physics SEM IV	NIRALI PRAKASHAN,PUNE	
	(Text Book as per New		
	Revised Syllabus KBCNMU,		
	Jalgaon),June 2019		
	PRACTICAL COURSE IN		
	PHYSICS, S.Y.B.Sc., Physics	NIRALI	
02	SEM IV (Text Book as per	PRAKASHAN,PUNE	
	Revised Syllabus KBCNMU,		
	Jalgaon),June 2019		
	Journal of Research and		
	Development, A	Editor: R.V.Bhole	
	Multidisciplinary	Zuiverv rav v Zinero	
0.2	International Level Journal,	Special Issue Editor:	
03	"Impact on COVID-19	Dr.N.B.Sonawane	
	Pandemic Related lockdown:		
	Present and Future Volume		
	10, Special Issue (8), May-		
	2020 ISSN-2230-9578		