

Swoddharak Vidyarthi Sanstha's
Dadasaheb Rawal College, Dondaicha.
Dadasaheb Rawal Knowledge City,
Mandal Road, Dondaicha, Dist. Dhule

TEACHER PROFILE
Academic Years 2009-10 to 2015-16

01. Name of the Teacher : **AHIRRAO PRAKASH BANSILAL**
02. Designation : **Associate Professor**
03. Subject : Physics
04. Area of Specialization : Physics
05. Date of Birth : 01-06-1964
06. Date of Appointment : 22-07-1989
07. Date of Confirmation : 22-07-1991
08. Academic Qualification :

Degree	Subject	Month and Year of Passing	University	Class/ Grade
B.Sc.	Physics	June 1985	University of Poona	I
M.Sc.	Physics	June 1987	University of Poona	II
Ph.D.	Physics	Dec. 2011	N.M.U. Jalgaon	

09. University approval letter No. and date : CCO/522/333, dated 06-02-2012

10. Whether Recognized as P.G. Teacher? If yes, give letter No. : Yes.

Letter No. : NMU/11/PGR/Phy/2289/2013.

11. Whether Recognized as M.Phil/Ph.D. guide? If yes, give letter No.:- Yes.

Letter No. : NMU/11/PGR/Phy/2289/2013.

(Give details of students working, Attach Annexure- A)

12. Research Project:

Sr. No.	Period	Title of the Research Project	Funding Agency	Amount Sanctioned	Completed / Ongoing
1	20 th Sept.- 2010 to 20 th Sept, 2012.	“Preparation and Characterization of nanocrystalline CuSCN and Cu ₂ O thin films deposited by modified chemical method” Letter No F. 47-1342 / 10 dated 20-Sept.-2010.	UGC-WRO, Pune	1,80,000/-	Completed

Sr. No.	Activity	University level	State level	National level	International level	Total	For detail
1	Research Publication	--	--	05	15	20	Annexure -I
2	Presentation of Research papers in National / International Seminar / Workshop / Conference	--	02	19	06	27	Annexure -II
3	Conferences/ Seminar/ Workshop attended	14	02	03	01	20	Annexure -IV
4	Books Publications	08			01	09	Annexure -V

13. Conferences/Seminar/Workshop organized : Yes.

Sr. No.	Title of Seminar	Sponsor	Position	Level	Period
1	National Seminar on Advanced Materials And It's Applications	UGC	Organizing Secretary	National	1 st and 2 nd Feb. 2013

14. Work in Different Committee at : Annexure –VI
University/ College level

15. Participation in Social Work / Extracurricular activities: Annexure -VII

16. Development of Academic Qualification during Services: Ph.D. completed in Dec. 2011.

17. Participation in Student Development Programme:

- Organized Science Quiz for the College Students
- Participated in Special Programme of NMU Jalgaon, for S.Y.B.Sc. and T.Y.B.Sc. Physics Students - [Visit to Lab. For Exploring Research Trends & Carrier Opportunities.]

Annexure- A**Research Students**

Sr. No.	Name of the Students	Registered
1	Mrs. Shital Madhukar Sonar	2015
2	Mr. Nimba Taniram Shimpi	2017

Annexure- I**Research Publications**

Sr. No.	Title of the Paper	Title of the Journal in which the paper published	ISSN/ISBN Number
1	Study on growth and characterization of copper iodide thin films deposited by modified chemical method Vol. 18, No. 3, 321-326 (2009)	Asian Journal of Physics	0971-3093
2	Structural, Optical and Electrical Properties of Nanocrystalline Cuprous Oxide Thin Film Deposited By Chemical Method Volume 2, Issue 2, 86 – 90 (2010)	Journal of Scientific Review	ISSN 0971-0754
3	Nanocrystalline p-type-cuprous oxide thin films by room temperature chemical bath deposition method Volume 509, Issue 18, 5551 – 5554, (2011)	Journal of Alloys and Compounds	0925-8388
4	Edge Dislocation by Etchant on Cleavage Planes of Glycine Vol 2 (1) 169 – 175, (2011)	Scholars Research Library, Archives of Physics Research	0976-0970
5	Photoluminescence properties of modified chemical bath deposited Copper Oxide thin film. Vol 3(2), 288 – 291, (2011)	Scholars Research Library, Archives of Applied Science Research	0975-508X
6	Structural, Optical and Electrical Properties of Nanocrystalline ZnS thin films Deposited by Novel Chemical Route Vol 3(2), 311 – 317, (2011)	Scholars Research Library, Archives of Applied Science Research	0975-508X
7	Microstructure and magnetic studies of Mg-Ni-Zn-Cu ferrites Vol 129, 1104 – 1109, (2011)	Materials Chemistry and Physics	I.F.- 2.259

8	Wide band gap nanocrystalline CuSCN thin films deposited by modified chemical method Vol 2(3) 29 - 33, (2011)	Scholars Research Library, Archives of Physics Research	0976-0970
9	Studies on nanocrystalline ZnS thin films prepared by modified chemical bath deposition method Vol 49, 765 - 768 (2011)	Indian Journal of Pure & Applied Physics	0975-1041
10	Photoelectrochemical (PEC) Solar Cell Studies on chemically deposited p-CuI thin film Vol. 1, No.3,125-130 (2011)	Invertis Journal of Renewable Energy	2231-3419
11	Photoluminance Properties of Cuprous Thiocyanate Deposited by Chemical Route p-273, (2012)	Proceedings of 4 th International Conf. on Luminescence And Its Applications	ISBN: 81-6717-806-5
12	Photoluminance study of Er ³⁺ doped Sr ₂ CeO ₄ Blue Phosphor. p-261, (2012)	Proceedings of 4 th International Conf. on Luminescence And Its Applications	ISBN: 81-6717-806-5
13	Synthesis and Luminescent Properties of Sm ³⁺ Doped Sr ₂ CeO ₄ Blue Phosphor, p 48-50, 2012	Exel Publication, Amrawati	ISBN: 978-81-922256-64
14	Thickness dependent electrical and optical properties of nanocrystalline copper sulphide thin films grown by simple chemical route. Vol 50, 657-660 (2012)	Indian Journal of Pure & Applied Physics	0975-1041
15	Studies on Physical properties of nanocrystalline Cu ₂ S thin films Prepared by Modified Chemical Bath Deposition Method. Vol. 6, 29-35 (2013)	Int.J. Nanoelectronics and Materials.	2232-1535
16	Synthesis and Photoluminescence Study of Sr ₂ CeO ₄ : Eu ³⁺ , Er ³⁺ Phosphor. P.46-48, 2013	Department of Physics, Vasavi College of Engineering, Hyderabad.	ISBN: 978-93-82570-10-3.
17	“Luminescence and Colorimetric Study of RE ³⁺ Activated Sr ₂ CeO ₄ Phosphor Prepared by Modified Solid State Diffusion Method” p 118- 121, November 2014	Proceedings Of The National Seminar On Display Materials O P.B.N. College, Nidubrolu.	ISBN: 978 - 93 - 82570 - a – 4
18	Gas Sensing Properties of Nanostructured ZnS. Thin Films J. Nano. Adv. Mat. 3, No. 2, 99-106 (2015)	Journal of Nanotechnology & Advanced Materials	2090-9594
19	Photoelectrochemical (PEC) Studies on Chemically Deposited CuSCN Thin Film by Simple Chemical Route. Chem Sci Rev Lett 2015, 4(13), 285-291.	Chemical Science Review and Letters	2278-6783
20	Thermal Decomposition of Ferroelectric Glycine Potassium Sulphate Crystal , Chem Sci Rev Lett 2015, 4(13), 349-353	Chemical Science Review and Letters	2278-6783

Annexure-II

**Presentation of Research papers in National / International Seminar /
Workshop / Conference**

Sr. No.	Title of Research Paper	Organizing Institute	Duration	Level
1	Study of Optical and Structural Properties of SnO ₂ thin films grown on glass substrate by chemical bath deposition technique.	ASC College Panchavati, Nashik	18-20 th Jan. 2018	International
2	Study of Optical and Structural Properties of ZnS Thin Film Deposited by Chemical Bath Deposition Technique.	Arts and Science college, Dahivel	6 th Jan. 2018	National
3	Synthesis and Luminescence properties of Dysprosium activated Sr ₂ CeO ₄ Phosphor	Dept. of Electronics and Physics, JDMVP College, Jalgaon	9-10 Dec. 2016	National
4	Investigation of Co-doping on Luminescence properties of Strontium Cerium Oxide Phosphor.....	G.T. Patil Arts, Commerce College, Nandurbar.	5-6 Feb. 2016.	National
5	Synthesis and Photoluminescence Properties of Copper Iodide Deposited by Chemical Method	Faculty of Technology and Engineering, M. S. University, Baroda	18-20 Dec. 2015	International
6	Synthesis of nanocrystalline Cadmium Selenide thin films by solution technique for Photoelectrochemical Solar Cells	ASC College, Songir	5 th Oct 2015	National
7	Luminescence study of CuI deposited by modified chemical method	M. J. College, Jalgaon	30-31 st Jan 2015	National
8	Luminescence and Colorimetric study of RE ³⁺ Activated Sr ₂ CeO ₄ phosphor Prepared by Solid State Diffusion method	Dept. of Physics, PBN College, Nidubrolu (AP)	7-8 th Nov. 2014	National
9	Luminescence properties of Er ³⁺ and Eu ³⁺ Co-activated Sr ₂ CeO ₄ Phosphor Prepared by modified Solid State Diffusion method	VSR & NVR College, Tenali (AP)	6 th Nov. 2014	National
10	Synthesis of nanocrystalline CdS thin film for PEC solar cell	PVP College Pravaranagar	20-22 nd Aug. 2014	International
11	Synthesis and photoluminescence properties of nanocrystalline Copper oxide thin films deposited by chemical bath deposition (CBD) method.	Dept. of Physics, Shivaji University, Kolhapur.	13-15 th Jan. 2014.	International

12	Colorimetric study of RE ³⁺ Activated Sr ₂ CeO ₄ blue phosphor Prepared by Solid State Diffusion Technique.	Dept. of Basic Sciences, N.M.U. Jalgaon.	21 st Sept. 2013	National
13	Synthesis and photoluminescence study of Sr ₂ CeO ₄ : Eu ³⁺ , Er ³⁺ Phosphor.	Department of Physics, Vasavi College of Engineering, Hyderabad.	19-20 th July 2013	National
14	Structural, optical and electrical properties of CuSCN thin films.	Department of Physics, S.V.S.'s Arts, and Science College Dondaicha. Dist;- Dhule.	1-2 nd Feb. 2013.	National
15	Thickness dependant electrical and optical properties of Copper Iodide thin films grown by Modified Chemical Route	Department of Physics, Arts, Commerce and Science College Taloda. Dist. Nandurbar	22-23 rd Jan, 2013.	National
16	Hydrogen Gas Sensing Performance of ZnS Nanocrystals Grown by Novel Chemical route.	Department of Physics, Arts, Commerce and Science College Navapur Dist. Nandurbar	6-7 th , Oct. 2012.	National
17	Photoelectrochemical studies on Cu ₂ O thin films deposited by chemical route.	Department of Physics, Sant Gadage Baba Amravati University, Amravati.	29-30 th May 2012.	National
18	Photoelectrochemical studies on chemically deposited p-Cu ₂ O thin films.	Shivaji University, Kolhapur (M.S.), India,	17-19 th Jan. 2012.	International
19	“Synthesis and characterizations of wide band gap p-type semiconductor materials”.	Department of Chemical Technology, NMU Jalgaon	19 th March, 2011.	National
20	Photoelectrochemical characterization of Cu ₂ O thin films deposited by modified chemical bath deposition	School of Physical Sciences, NMU Jalgaon	7 th March, 2011.	National
21	“Synthesis and photo luminance properties of Cu ₂ O deposited by modified chemical method”	Luminescence Society of India and Disha Institute of Management & Technology, Raipur.	7-9 th Feb. 2011	National
22	Structural, optical and photoelectrochemical characterization of wide band gap p-type CuSCN thin films.	Dadasaheb D. N. Bhole College Bhusawal, Dist. Jalgaon	22-23 rd Jan. 2011	National
23	Studies On Characterizations Of Nanocrystalline Cuprous Oxide	Swami Ramanand Teerth Marathwada	11-13 th Jan. 2011	International

	Thin Films Deposited By Chemically Arrested Route	University, Nanded-(M.S.), India.		
24	Study on growth and characterizations of nanocrystalline cuprous oxide thin films deposited by Chemical Bath Deposition Method.	University of Pune	June 2010.	National
25	Preparation and characterization of nanocrystalline p-CuSCN thin film by chemical method	Vidhya Vikas Mandals S. G. Patils ASC College Sakri. Dist-Dhule,	8-9 th Mar. 2010	State
26	Study on growth and characterizations of nanocrystalline copper thiocyanide thin films deposited by Modified Chemical Method.	Sardar Patel University, Vallabh Vidyanagar.	9-11 th Feb. 2010	National
27	Study On Growth And Characterizations Of Copper Oxide Thin Films Deposited By Modified Chemical Method	Department of Physics, PSGVP ASC College, Shahada	6-7 th Feb 2009	State

Annexure-IV

Conferences/Seminar/ Workshop attended

Sr. No.	Title of Conference / Seminar / Work shop	Organizing Institute	Duration	Level
1	Workshop on T.Y.B.Sc. Physics Syllabus Framing.	NMU Jalgaon and Department of Physics, PSGVP ASC College, Shahada	25 th Feb. 2017	University
2	Workshop on S.Y.B.Sc. Physics Syllabi revision	NMU Jalgaon & Arts and Science College, Dahivel.	14 th Jan. 2016	University
3	Workshop on T.Y.B.Sc. Physics Practicals	Dept. of Physics, Rashtriya ASC College, Chalisgaon	27 th Jan 2015	University
4	Workshop on First Year B. Sc. Syllabus Revision	Dept. of Physics, SSVPS Science College Dhule	17 th Jan 2015	University
5	Workshop on M.Sc. Syllabi revision	N.M.U, Jalgaon & Pratap College Amalner.	29 th April 2014	University
6	Workshop on T.Y.B.Sc. Physics Syllabi revision	N.M.U, Jalgaon & R. C. Patel ASC College Shirpur.	23 rd to 24 th Feb. 2014	University
7	Workshop on S.Y.B. Sc. Syllabi revision	N.M.U, Jalgaon & ASC College Jamner	10 th Feb. 2013	University

8	National Conference on Nanostructures and Nanomaterials (NCNN-2012) at Ekalavya Study Centre Nandurbar	Department of Chemical Technology, North Maharashtra University, Jalgaon	28 th Mar., 2012.	National
9	Workshop on F.Y.B. Sc. Syllabi revision	N.M.U, Jalgaon & SGP College Sakri	27 th Mar. 2012	University
10	National Conference on Nanomaterials, Industrial Polymers and Eco-friendly Coatings-Perspective and Challenges (NIPEC-2012)	Department of Chemical Science and UDCT, North Maharashtra University, Jalgaon	18 th Feb, 2012.	National
11	National Conference On "Recent Trends In Engineering Sciences"	Dept. of Applied Sciences, J.T. Mahajan College of Engineering, Faizpur.	4 th to 5 th Jan. 2012	National
12	"API for appraising Teachers' yearly performance"	Pratap College Amalner, Dist- Jalgaon	24 th April. 2011	University
13	"Status of Higher Education in the present Scenario and the Role of Teachers"	Arts, Science and Commerce College Pachora, Dist- Jalgaon	19 th Feb. 2011	State
14	Human Right Education.	S.V.S.s Arts and Science College Dondaicha.	23 rd to 24 th Dec. 2010	State
15	"Restructuring and privatization of higher education in India"	NMUCTO and MFUCTO at NMU, Jalgaon	19 th to 21 st Nov. 2010	University
16	Workshop on Innovative Experiments and Technological Advances at Under Graduate Course in Physics	M.J. College Jalgaon.	29 th Jan. 2010	University
17	University Level Research Festival, AVISHKAR-2009	N.M.U, Jalgaon	1 st to 2 nd Dec 2009	University
18	Restructuring of the Syllabi for Physics at T.Y.B.Sc.	Dept. of Physics, ASC College, Raver	15 th to 16 th Mar. 2009	University
19	New Trends in Higher Education.	NMU, Jalgaon and S.V.S.s A. & S College Dondaicha.	1 st Mar. 2009	University
20	International Conference on Nanomaterials and Applications-2008	Department of Chemistry and Physics, Shivaji University, Kolhapur	9 th to 11 th Dec. 2008	International

Annexure V

Books Published

Sr. No.	Title with page Nos.	Book Title, editor & publisher	Class	ISSN/ ISBN No.	Year
1	Practical Physics	Prashant Publications Jalgaon	S.Y.BSc.	ISBN: 978-93-81546-80-2	July 2016
2	Practical Physics	Prashant Publications Jalgaon	S.Y.BSc.	ISBN-13: 978-93-824	Dec. 2016
3	Waves and Oscillations	Prashant Publications Jalgaon	S.Y.BSc.	ISBN: 978-93-81546-26-0	July 2016
4	Electronics-I	Prashant Publications Jalgaon	S.Y.BSc.	ISBN: 978-93-81546-32-1	July 2016
5	Modern Physics	Prashant Publications Jalgaon	S.Y.BSc.	ISBN: 978-93-82414-75-9	Dec. 2016
6	Optics	Prashant Publications Jalgaon	S.Y.BSc.	ISBN: 978-93-82414-78-0	Dec. 2016
7	Synthesis & Characterization Of Chemically Deposited Cu ₂ O Thin Films	LAP LAMBERT Academic Publishing, Germany	Reference book	ISBN-13: 978-3-659-83550-6	Mar-2016
8	Theoretical Physics	Prashant Publications Jalgaon	F.Y.B.Sc	978-93-85019-84-5	Jan-2016
9	Electricity and Magnetism	Prashant Publications Jalgaon	F.Y.B.Sc	978-93-85021-69-5	July-2015

Annexure VI

Work in Different Committee at University/College level

Sr. No.	Nature of committee	Level	Position Held	Duration
1	SENATE	University	Member	2017-2022
2	Examination- Flying Squad	University	Chairman	22 nd April to 5 th May -2018
3	Examination Fy/Sy/Ty B.Sc. Theory	University	Sr. Supervisor	27 th Mar. to 7 th April 2018
4	Examination S.Y.B.Sc. Practical	University	External	19 th to 20 th Mar. 2018
5	Local Inspection Committee, at Jamner, NMU Jalgaon	University	Chairman	23 rd Feb. 2018

6	Subject Expert in Physics	University	Expert	9 th Jan. 2018
7	Seating Squad of YCMOU Exam.	YCMOU University	Chairman	25,26 May & 31 May to 3 June 2017
8	Examination S.Y.B.Sc. Practical	University	External	2 nd to 6 th Dec. 2016
9	Examination- Flying Squad	University	Chairman	19 th to 27 th Oct. 2016
10	Local Inspection Committee, at Bhalod & Pal, NMU Jalgaon	University	Chairman	12 th Mar. 2017 & 31 st Mar. 2017
11	Examination- Flying Squad	University	Chairman	16 th April to 3 rd May - 2016
12	Examination Fy/Sy/Ty B.Sc. Theory	University	Internal Squad	31 st Mar & 12 th April 2016
13	Local Inspection Committee, NMU Jalgaon	University	Chairman	8 th ,10 th , 22 nd Mar – 2016
14	Examination- Flying Squad	University	Chairman	9 th to 16 th Dec.2015
15	Unfair means committee, NMU Jalgaon	University	Member	From 19 th - Dec. 2012 to 31 st Aug. 2015
16	Appointment for Sr. Supervisor for Various Examinations	University	Member	From 2014 to 2016
17	Silver Jubilee program, NMU Jalgaon	University	Member- Seating Arrangement	17 th Dec. 2013 - 17 th Dec. 2014
18	Board of Studies (Physics) committee, NMU Jalgaon	University	Member	From 18 th Jan. 2014 to 31 st Aug. 2015
19	Local Inspection Committee, NMU Jalgaon	University	Chairman, Member	May 2013, Mar. 2014
20	Examination- Flying Squad	University	Chairman	Apr. 2010, Oct. 2012
21	Examination Fy/Sy/Ty B.Sc. Theory	University	Sr. Supervisor	9 th to 19 th Apr. 2011, 2 nd to 9 th Nov. 2011, 29 th Mar. to 7 th Apr. 2012.
22	Examination S.Y. B.Sc. Theory	University	Paper Assessment	6 th Dec. 2010, 9 th May 2011
23	Examination Sy/Ty B.Sc. Practical's	University	External examiner	10 th to 14 th Mar. 2011, 16 th to 21 st Mar. 2012
24	Examination Fy/Sy/Ty B.Sc. Theory	College	Jr. Supervisor, Internal Squad	9 th to 10 th Nov. 2010, 10 th to 20 th Apr. 2012

Annexure VII
Participation in Social Work / Extracurricular activities

Sr. No.	Nature of work	Level	Position held	Duration
1	Ahir Suvarnakar Samaj, Dondaicha	Dondaicha City	Vice President, Director.	2012-14, 2018
	NMUCTO Central Executive Council	University	Member, Joint Secretary	2009-12, 2015-2018
2	NMUCTO College Committee	College	NMUCTO Representative	2013-18
3	Counselor of open university.	University	Counselor	2009-2012
5	3 Years member	Central News Agency Pvt. Ltd. New Delhi.	Member	2011- 2014
6	Life member	Indian Association of Physics Teachers (IAPT) Kanpur.	Life member	From 2011
7	Life member	Materials Research Society of India (MRSI), Bangalor.	Life member	From 2011