

CURRICULUM VITAE



A . General Information

- i) Name : **SUNIL BAJIRAO UNHALE**
(first) (middle) (surname)
- ii) Address : 26-Goenka Layout, Near 'Gajanan Vatika',
Mukund Nagar, Akola, Maharashtra State,
India PIN 444 001
- iii) Designation : Assistant Professor
- iv) Department : Department of Physics,
Dr. Manorama And Prof. Haribhau Shankarrao Pundkar,
Arts, Commerce & Science College Balapur,
Dist. Akola, Maharashtra State, India PIN 444 001
Phone No.: Office 07257-222440,
Mobile 09422351484
E-mail: sunilunhale@gmail.com,
- v) **Date of Birth:** 25th April 1971
- vi) **Area of Specialization:** Solid state Electronics
- vii) **Area of Research:** Metal Oxide Gas Sensors, Chemical Gas Sensors,

B. Academic Qualifications: M.Sc. Ph.D. (Physics)

Degree	Subject	University	Year Of Passing	Division
B.Sc.	Maths, Physics, Electronics	Poona University, Pune	March 1992	I
M.Sc.	Physics	North Maharashtra University, Jalgaon	March 1994	I
Ph.D.	Physics (Title of Thesis: Application of Metal Oxide SnO ₂ -ZnO as a CO ₂ Gas sensors.)	S.G.B. Amravati University, Amravati	May 2011	-

Details of employment (past & present):

Sr.No.	Name of Institutions	University	Position Held	Period
01.	Dr. Manorama And Prof. Haribhau Shankarrao Pundkar, Arts, Commerce & Science College Balapur Dist. Akola, (MS)	SGB Amravati University, Amravati	Lecturer, Department of Physics	July.1, 1994 To Onwards

Experience:**a) Teaching**

1) Undergraduate (Physics) :20Years

b) Research

1) Research (Chemical Gas Sensors, Solid State Physics) :05 Years

2) Research Publications : 06

International Journals : 04

Conference /Seminar/Symposium : 02

6) Conference /Seminar/Symposium attended

: 20

Details of Professional Training Specifying Period:

Sr. No.	Name of Course/Training	Duration	Venue/Course Undertaken
1.	Orientation Course	From 06 th Mar 2000 To 29 th Mar 2000	UGC-Academic Staff College, Nagpur University.
2.	Refresher Course in Physics	From 2 nd Jun 2001 To 25 th Jun2001	UGC-Academic Staff College, Amravati University, Amravati.
3.	Refresher Course in Physics	From 9 th Mar 2012 To 30 th Mar 2012	UGC-Academic Staff College, Sant Gadge Baba Amravati University, Amravati.

Member of Organising /Advisory Committee for Seminar/Conference/Symposium

Sr. No.	Name of Event	Position in Event	Duration of Event	Venue of Event
1	National Conference on Advances in Material Research(NCAMR -2010)	Advisory Committee	26 th -27 th Feb 2010	Shankarlal Khandelwal College, Akola
2	National Seminar on Current Trends in Material science	Advisory Committee	3 rd Dec 2011	Dr. R. G. Rathod Science College, Murtijapur, Akola

Research Papers Published (International Journal):

Sr. No.	Title of Research Article	Authors	Journal Name, Vol., Year	Status
1	A selective CO ₂ gas sensor based on Fe ₂ O ₃ -ZnO nanocomposites at room temperature	S. B. Unhale, S.S. Yawale and S.P. Yawale	Bio-Nano frontier Special Issue -7 PP 12-14,2011 (ISSN 0974-678 Impact. Factor : 0.2334)	International
2	Study on ZnO-doped tin oxide thin film gas sensors	S. B. Unhale, S.S. Yawale and S.P. Yawale	Bio-Nano frontier Vol.5- 2012 (ISSN 0974-0678 Impact. Factor : 0.2334)	International

3	Application of Metal Oxides ZnO-SnO ₂ as a carbon dioxide gas sensor	S. B. Unhale, S.S. Yawale and S.P. Yawale	International Journal of Basic And Applied Research Special Issue (Online- ISSN 2278-0505,ISSN 2249-3352)	National
4	Application of nanosize polycrystalline SnO ₂ -WO ₃ solid material as CO ₂ gas sensor	S. B. Dhannasare, S. S. Yawale, S.B.Unhale, and S.P. Yawale	Revista Mexicana de F'ísica 58 (2012) 445–450	International

Research Papers Presented At Conferences/Seminars/ Convention/Workshop:

Sr. No.	Title of Research Paper Presented (oral/Poster)	Title of Conference and Duration	Venue
1	CO ₂ gas sensing properties of SnO ₂ -Fe ₂ O ₃ composites	National Conference on Advances in Material Research(NCAMR - 2010)	Shankarlal Khandelwal College, Akola
2	A selective CO ₂ gas sensor based on Fe ₂ O ₃ -ZnO nanocomposites at room temperature	National Seminar on Current Trends in Material science	Dr. R. G. Rathod Science College, Murtijapur, Akola
3	Application of polycrystalline SnO ₂ -WO ₃ solid solution asCO ₂ gas sensor.	National Conference on Developing Frontiers in Physics, Astronomy and Space Sciences	RLT College Of Science Akola
4	Study on ZnO-doped tin oxide thin film gas sensors	National Conference on Technologies in Engineering and Science for Energy Applications	Dr. Ambedkar College Nagpur(M.S.)
5	Application of Metal Oxides ZnO-SnO ₂ as a carbon dioxide gas sensor	National Conference on 'Recent Trends In Physics'(NCRTP2012)	Mungsaji Maharaj Mahavidyalaya Darwha Dist. Yavatmal (M.S.)

Conferences/Seminars/ Convention/Workshop Attended:

Sr. No.	Name of Event	Date of Event	Venue
1.	National Conference on Resents Trends In Composites	28 th Feb- 2 nd Mar 2001	Shri Shivaji College Of Science Amravati. – 444 602
2.	Amravati University Physics Teachers Convention 2003	5 th Jan 2003	RLT College Of Science Akola. MS
3.	Workshop On Scope and Limitations of B.Sc.I (PHY) Syllabus	17 th Aug.2003	Amravati University Physics Teacher Association, Amravati & ASC College Chikhaldara MS
4.	Amravati University Physics Teachers Convention 2004,	29 th Feb 2004	SSKR Innani Mahavidyalaya, Karanja Lad.Wasim. MS
5.	Workshop On Scope and Limitations of B.Sc.II (PHY) Syllabus	3 rd Oct 2004	Amravati University Physics Teacher Association, Amravati & Shri Shivaji College Akot, Akola. MS

6.	Workshop On Scope and Limitations of B.Sc.III (PHY) Syllabus	30 th Jan 2005	Amravati University Physics Teacher Association, Amravati. & Dept. Of Physics, Amravati University, Amravati. MS
7.	A Workshop on Pure Physics Curricula in Contemporary Universities: Challenges and Innovations (Convention of AUPTA)	26 th April 2009	Vidya Bharati Mahavidyalaya, Amravati M.S.
8.	Workshop on Recent Trends In Physics	17-19 Dec 2009	Department of Physics Sant Gadge Baba Amravati University Amravati
9.	National Conference on Materials Science: Trends & Future -2010,	Jan. 6-7, 2010	Vidya Bharati Mahavidyalaya, Amravati M.S.
10.	National Conference on Advances in Material Research(NCAMR -2010)	26 th -27 th Feb 2010	Shankarlal Khandelwal College, Akola
11.	National Seminar on Current Trends In Physical Sciences	28 Mar 2010	Shri Shivaji Science College Akola.
12.	National Conference on Developing Frontiers in Physics, Astronomy and Space Sciencesdfpass-2010	24 th -25 th Sept. 2010	RLT College Of Science Akola
13.	Work shop on Role of a Teacher for Quality Education with Reference to sixth pay commission	10 th April 2011	Shri Shivaji Science College Akola.
14.	National Seminar on Current Trends in Material science	3 Dec 2011	Dr. R. G. Rathod Science College, Murtijapur, Akola
15.	National Conference on Technologies in Engineering and Science for Energy Applications	2 nd -3 rd Jan. 2012	Dr. Ambedkar College Nagpur
16.	National Seminar on Technological Innovations with Environmental Integrity	28 th Feb. 2012	College of Engineering & Technology, Amravati(M.S.)
17.	National Conference on Lasers and Advanced Materials	29 th -30 th May 2012	Department of Physics Sant Gadge Baba Amravati University Amravati
18.	National Conference on Innovative Research Trends In Biological Sciences	8 th -9 th Sept. 2012	Shri Shivaji Science College Akola.
19.	National Conference on Recent Trends In Physics(NCRTP2012)_	26 th -27 th Oct. 2012	Mungsaji Maharaj Mahavidyalaya Darwha.
20.	Workshop on Exotic Materials” Synthesis ,Characterization and Application”	1-3 Jan 2013	Department of Physics Banaras Hindu University Varanasi-221005
21.	National Conference on Recent Trends In Physics(NCRTP2014)_	Jan 2014	Bhartiya Mahavidyalaya Amravati

Memberships / Linkages :

Name of the Organization	Level	Nature of Linkage Annual / Life Membership	Year from which the linkage is established
Advisory Board Member of <i>Multi Logic Science</i> ,	International	Advisory Board Member p-ISSN: 2277-7601 Website:	2011
Nagpur University Physics Teachers' Association	National	Life Member	2005
Amravati University Physics Teachers' Association	National	Life Member	2005

Participation as Resource Person :

Sr. No.	Name of the activity	Date	Venue	Level
1.	Judge for National Seminar on Current Trends in Material science	03.12.2011	Dr. R. G. Rathod Science College, Murtijapur, Akola	University
2.	Judge for National Seminar on Technological Innovations with Environmental Integrity	28.02.2012	College of Engineering & Technology, Amravati(M.S.)	University

Extra curricular and Co-curricular Activities :

- Attended Assembly Election Training on 4th Oct. 2009 at Murtijapur.
- Attended Assembly Election Training on 10th Oct. 2009 at Murtijapur.
- Participate in Assembly Election as a Presiding Officer on 12th Oct. 2009.

Computer Experience:**Participation in University Workings:****Participation on University Committees :**

Sr. No.	Name of the activity	Date	Venue	Level
1.	Member of Affiliation Committee by S.G.B.A.U Amravati	2 nd Sept. 2008	Shri Shivaji Science & Arts, College Chikhali, Dist. Buldana	University
2.	Subject Expert for Selection Committee by S.G.B.A.U Amravati	12 th Aug. 2012	R.A. College Washim	University
3.	Member of Affiliation Committee by S.G.B.A.U Amravati	4 th Dec. 2013	Gayadevi Joshi Aryabhata Mahavidyalaya, Akola, Dist.- Akola	University
4.	Member of Grading Committee of colleges by S.G.B.A.U Amravati		Mahaima Fule Science College Paaras, Dist: Akola	University

Worked as Member of Board Of Studies in Physics, LEC Committee member, Subject Expert, Paper setter, External/Internal Examiner, Moderator, etc

College Contribution:

- Member of Admission Committee
- Member of Purchase Committee
- Member of Discipline and Security Committee

Date:**Place: Balapur****Signature of Candidate****S. B. Unhale****Head Dept. Of Physics**

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