

# Curriculum- Vitae

## 1. Personal Details:



### ARCHANA BABASAHEB BODADE

Assistant Professor in Physics

Shri Shivaji Education Society, Amravati's

Shri Shivaji Science College,

Amravati – 444 603 (M.S.)

Phone:-0721-2660855 (Office)

Mobile:- +91-9326658979

Email id :- [archanabodade2005@gmail.com](mailto:archanabodade2005@gmail.com)

Nationality:- Indian

Date of Birth:- 04/04/1970

## 2. Educational Qualification:

Degree	Subjects	Division	Marks in %	Institute Board/ University	Year	Particulars
Ph.D.	Nanoscience			S.G.B. Amravati University	201 5	Shri Shivaji Science College, Amravati. <b>Thesis title-</b> <b>“Structural and electrical characterization of semiconducting nanosized metal oxides and their application ”</b>
M. Phil	Physics	Second	56	S.G.B. Amravati University	201 0	S.G.B. Amravati University
M.Sc.	Physics	Second	56.90	Amravati University	199 6	Shri Shivaji Science College, Amravati
B. Ed	Maths, Physics	First	66.40	Amravati University	199	Amravati

					2	University
B.SC	Phys. Chem. & Maths	Second	57.40	Amravati University	1991	Shri Shivaji Science College, Amravati
H.S.C	Phys. Chem. Bio & Maths.	First	66.33	Div. Board, Nagpur	1988	Shri Shivaji Science College, Amravati
S.S.C	English, Marathi, Hindi, Science, Social Science, Maths.	First	64.14	Div. Board, Nagpur.	1986	Holy Cross English High School, Amravati

### 3. Area of Specialization:

- i. Material Science
- ii. Nano-materials
- iii. Dielectric Material

### 4. Employment Profile:

#### 4.1. Teaching position

Sr. No.	Name of Instt. / College	Post Held	Nature of Post	Total Period (Years)
1.	Shri Shivaji Science College Amravati – 444 603	Assistant Professor	Regular	01
2.	Shri Shivaji Science College Amravati – 444 603	Jr. College Teacher	Regular	18
3.	Deptt. of Physics Amravati University	Teacher (P.G. Classes)	C.H. B	03
4.	Shri Shivaji Science College Amravati – 444 603	Lecturer (P.G. Classes)	C.H.B.	04

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## 4.2. Administrative Position.

### a) College Activities and Committees

1. Member of college exam committee.
2. Member of Girls common room committee.
3. Member of Physics (society and activity) committee.
4. Member of Annual Gathering committee.

### b) Organization of Academic Events

1. Member of Steering Committee: DST-INSPIRE Internship Camp (2018-19)

## 5. Membership of professional bodies:

Member of the 'Indian Association of Physics Teachers', Kanpur U.P.  
(Reg.no. L7016).

## 6. Research Accomplishment:

1. **Research Experience:** 10 Yrs.
2. **Research Publications:**

National and International Journals	05 (Annexure I)
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3. **Research Papers Presented in Conferences/Seminars:**

International	-
National	06
4. **Conferences/ Seminars Attended:**

International	01
National	07
State/Regional	-
5. **Book Published:**

Have been appointed as a member of 'Board of Studies' of M.S. Bureau of Text Book Production and Curriculum Research, Pune. ( Since 2018 ) The **First Edition (Print)** of the '**Text Book of Physics**' for Std. 11<sup>th</sup> & 12<sup>th</sup> is recently published. (2019, 2020)
6. **Research Metrics:**
  - <https://scholar.google.com/citations?user=PVQX4XUAAAAJ&hl=en>
  - Citations: 27, h-index:2 , i-index:01 (Google Scholar)

## **7. Course's completed:**

1. Four Week Induction/Orientation Programme organised by Teaching and Learning Centre, Ramanujan College, University of Delhi and sponsored by MHRDC during 4/6/2020 to 1/7/2020
2. Attended "9<sup>th</sup> Online Short-Term Course on E- content development "during 28/5/2020 to 3/6/2020 organised by UGC-HRDC, Gujarat University, Ahmedabad.
3. One-week FDP on "E-content development in Teaching organised by Saraswati Kala Mahavidyalaya, Dahihanda, Akola in Collarabation with PG Department of Computer Science, SGBAU, Amravati.
4. One-week National Level FDP on G-Suite and Allied Tools in Education, Teaching and e-content development organised by PG Department of Computer Science and Engineering, SGBAU from 29/06/2020 to 4/07/2020.
5. Online F.D.P. Course on Material Science: Synthesis and Characterization from (12<sup>th</sup> May to 14<sup>th</sup> May 2020), Organised by Department of Physics, Institute of Science, Vaishnav Vidyapeeth Vishwavidyalaya, Ujjain Road, Indore- 453 111
6. Eight-week (Sep-Nov 2020) NPTL course " Introduction to Research".
7. Classical Electromagnetism - 1 (Electrostatics) ( August 15 to December 13, 2020 ) conducted by IIT KANPUR.

## **8. Course conducted:**

- **Online Certificate Course "Nano-Material Synthesis" (27<sup>th</sup> July to 14<sup>th</sup> August 2020)**

## **9. Conference/Workshops/Webinar Attended:**

1. Participated in 'National Conference on Laser and Advanced Materials NCLAM-2012' organized by Department of Physics, Sant Gadge Baba Amravati University, Amravati (M.S.) during May 29-30, 2012.
2. International E –Conference on Strategies and Challenges in Higher Education during COVID -19 Lockdown period in India with Reference to the World from (15<sup>th</sup> May to 17<sup>th</sup> May) Organised by Government of Maharashtra ,Government Vidarbha Institute of Science and Humanities Amravati (M.S) India.
3. E- Certificate Astronomy and Astrophysics Course from (7<sup>th</sup> May to 10<sup>th</sup> May 2020) and attended online quiz (Organised by R.L.T. College Akola.)
4. Online National Webinar on Research Publication on Science Fraternity and Quality Dimensions (19<sup>th</sup> May 2020) Organised by Mahatma Gandhi College of Science Gadchandur, Dist. Chandrapur and Lokmanaya Tilak Mahavidyalaya, Wani, Dist. Yavatmal. (M.S.).

5. One day International Online Workshop on Nanomaterial Synthesis is Emerging fact of the World on( 20 May2020 ) Organised by Dept. of Physics and Mathematics Late Pushpa Devi Patil Arts and Science College Risod ,Dist. Washim.
6. Webinar on topic Impact of Covid -19 on Indian Economy (21<sup>st</sup> May 2020) Organised by Shri Shivaji Educations Societys Amravati Shri Pundlik Maharaj Mahavidhalaya Nandura (Railway) Dist. Buldhana. (M.S).
7. Participated in state level online Workshop on Intellectual Property Rights (IPR-2020) on 26<sup>th</sup> May2020. Organised by R.L.T. College of Science Akola (M.S.).

## 10. Others:

1. Worked as an **Examiner for Amravati Municipal Corporation area 'Science Exhibition'** organized by Amravati District Board of Science Teachers and Deptt. of Education, Govt. of Maharashtra, Z. P. Amravati.
2. Worked as a **Subject Expert of Physics for 'Jr College Teacher's Selection Committee'**.
3. Worked as a **Teacher In-Charge for the students participated in 'Inspire Science Awareness Camp'** held between 20 to 24<sup>th</sup> Dec. 2016 sponsored by DST, Govt. of India and organized by Shri Shivaji Science College, Nagpur.
4. Conducted **'Quiz Competition' for Inspire Programme sponsored by DST, Govt. of India** and organized by Shri Shivaji Science College, Amravati.
5. Worked as a **Judge for 'Science Exhibition of ATAL TINKERING LAB (ATL)'** held on 18<sup>th</sup> July 2019 at Narayandas Laddha High School, Amravati

**Date:**

**Place: Amravati**

**Dr. Archana B. Bodade**

## Research, publications and academic contributions

### Papers published in Journals

Sr. No.	Title of Paper and Authors	Name of the Journal, Volume no. Page	Impact Factor	Citations
1.	. 'Study of Optical Band Gap in PVC-PMMA Polymer Blends' D.K. BURGHATE, MISS A. BODADE, MISS LAXMI JOSHI, V.P. AKHARE, P.T. DESHMUKH, M.S. DESHMUKH, AND S.N. SHILASKAR.	J. Polym. Mater. Vol.26, No. 1, 2009, 59-66		
2.	. 'Conduction mechanism and gas sensing properties of CoFe <sub>2</sub> O <sub>4</sub> Nano composite thick films for H <sub>2</sub> S gas'. Anjali B. Bodade, Archana B. Bodade, H.G. Wankhade, G.N. Chaudhari and D. C. Kothari.	<a href="#">Elsevier B.V. Talanta 89 (2012) 183-188</a>		
3.	'Structural Characterization of Nano crystalline La <sub>1-x</sub> Sr <sub>x</sub> CrO <sub>3</sub> Thick Films for H <sub>2</sub> S Gas Sensors'. Ashish V. Kadu , Archana B. Bodade , Anjali B. Bodade and G.N. Chaudhari.	<a href="#">Journal of Sensor Technology, 2012, 2, 13-18</a>		
4.	'STRUCTURAL AND ELECTRICAL PROPERTIES OF Sr – SUBSTITUTED PEROVSKITES NANOCRYSTALLINE LaMnO <sub>3</sub> . G.N. Chaudhari, A.B. Bodade , and D.K. Burghate	International Journal of Engineering and Innovative Technology (IJEIT) Volume 4, Issue 1, July 2014		
5.	STRUCTURAL AND ELECTRICAL PROPERTIES OF PEROVSKITES La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> (x=0,0.3) SYNTHESIZED VIA SOL –GEL CITRATE METHOD Archana B. Bodade <sup>1</sup> , G.N. Chaudhari <sup>2</sup> , Anjali B. Bodade <sup>3</sup>	<a href="#">Journal of Emerging Technologies and Innovative Research , Volume 7, Issue 2, February 2020</a>		

## Research Papers published in Journals

Sr. No.	Title of Paper and Authors	Name of the Conference	Proceeding ISBN/ISSN
1.	<b>'Synthesis and Characterization of Nano crystalline CoFe<sub>2</sub>O<sub>4</sub> based H<sub>2</sub>S Sensor'.</b>	<b>'National Workshop on Nanostructured Materials for Energy Devices and Environment'</b> held on 17-18 <sup>th</sup> August 2011 at University of Mumbai	
2.	<b>'AC conductivity and Complex impedance spectroscopy study of Sr mixed Nano crystalline LaMnO<sub>3</sub>.</b>	<b>'National Conference on Frontier Areas in Chemistry and Workshop on Quantum Mechanics and Research Methodology'</b> held on 23 & 24 Oct, 2013at Shri Shivaji College, Amravati.(M.S.)	978-81-926186-4-7
3.	<b>'Structural and Dielectric analysis of La<sub>1-x</sub>Sr<sub>x</sub>MnO<sub>3</sub> Nanoparticles'</b>	One Day National Seminar on Nanotechnology and Nanoengineering (NSNN-2016) held on 29 Sep 2016 at Arts, Commerce and Science College, Kiran Nagar, Amravati. (M.S.)	
4.	<b>'Structural &amp; Electrical Characterization of LaMnO<sub>3</sub> Thick films for CO Gas Sensor'</b>	<b>'National Conference on Emerging Trends in Science'</b> held during Feb 1 <sup>st</sup> & 2 <sup>nd</sup> , 2019 at Vidya Bharati Mahavidyalaya, Amravati. (M.S.)	
5.	<b>AC Electrical Conductivity and Dielectric Properties of Perovskites La<sub>1-x</sub>Sr<sub>x</sub>MnO<sub>3</sub> (x=0,0.3) synthesized via sol-gel citrate method</b>	National Conference on New Dimensions in Chemistry and Chemistry Education and National Convection of Chemistry Teachers (NCCT-2019) held during Dec 5 <sup>th</sup> -7 <sup>th</sup> ,2019 at SGBAU, Amravati	
6.	<b>' Structural &amp; Electrical Characterization of Modified LaMnO<sub>3</sub> Thick films' for CO Gas Sensor'</b>	<b>Poster presented in National Conference on Innovative Research in Science and Technology</b> held during Dec 17 <sup>th</sup> & 18 <sup>th</sup> , 2019 at Shri Science College , Amravati	

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