

**Shri Pundlik Maharaj Mahavidyalaya Nandura, Dist Buldana**

**Faculty Profile  
Department of Physics**



1. Name : **Dr. Vaishali G. Thakare**
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Anand Park Apartment, Madhav Nagar,  
Gorakshan Road, Akola-444 001.
3. Phone no. / Cell no. : +91-9766650540
4. E-mail address : [vaishaliwatile@gmail.com](mailto:vaishaliwatile@gmail.com)
5. Designation : Assistant Professor
6. Date of Appointment : 12/12/2019
7. Department : Physics
8. Date of birth : 9<sup>th</sup> January 1986
9. Caste : Open (Kunbi)
10. Area of Specialization: Physics.
11. Academic Qualification: M.Sc., Ph.D.

Examination Passed	Board/University	Subject Specialization	Year of Passing	Division/Grade/ Merit/Rank
Bachelor's Degree	Amravati University	Chemistry, Botany, Zoology	June 2007	II
Master's degree	Amravati University	Physics	June 2013	I
PhD	Amravati University	Physics	2017	-

**12. Research Experience : 5 years**

Worked as **Research Fellow** on **Major Research Project** entitle "Synthesis, Characterization and Study of Nano-Biocomposites and Hybrid Biomaterials" funded by **UGC** in **Department of Physics** at S.G.B.A.U. Amravati since **2012 to 2014 and worked as a research student since 2012 to 2017.**

**a. Publishing Research Papers**

**(International-9):-**

- Paper published entitled "Fabrication Of Polycaprolactone/Zirconia Nanofiber Scaffolds Using Electrospinning Technique", in Journal of Polymer Research (Springer), 24 (12) 232 (2017).
- Paper published entitled "Quality Enhancement of Polycaprolactone/ Hydroxyapatite Nanocomposite Scaffold using Novel *In-situ* Sol-Gel method" in Trends Biomaterial & Artif. Organs, 30(2), 126-133 (2016)
- Paper published entitled "Evaluation of Biological Activities of Nanocrystalline Tetragonal Zirconia Synthesized Via Sol-Gel Method" in International Journal of Pharmacy and Pharmaceutical Sciences ISSN- 0975-1491, 6(8), 125-131(2016).
- Paper published entitled "Combustion Synthesis and Characterization of Zirconia" in proceeding of NCRTMPA-2014(**ISBN: 978-81-929160-2-6**) March 2014.

- Paper published entitled “Hydroxyapatite-Zirconia Composite Biomaterial: A Review” in proceeding of NCRTMPA-2014(**ISBN: 978-81-929160-2-6**) March 2014.
- Paper published entitled “Synthesis and Characterization Of Hydro-oxyappetite-Polycarpolactone Nanocomposite using Novel in situ Method” in International Journals Of Researches In Biosciences, Agriculture And Technology (**ISSN no.2347-517X on-line**), Jan.2014 Issue-2 Vol.-1, 1199-1204.
- Paper Published entitles “Combustion Synthesis and Characterization of Yttria-Partially Stabilized Zirconia (Y-PSZ): A Biomaterial” in special issues of International Journal of Basic and Applied Research (**ISSN-2249-3352**) Jan.2014.
- Paper Published entitled, “Progress in Synthesis and Applications of Zirconia” in International Journal of Engineering Research and Development (**ISSN-2278-800X**), Dec.2012, 25-28.
- Paper Published entitles “Photo-luminance Study of Doped Zirconia” in special issues of International Journal of Basic and Applied Research (**ISSN-2249-3352**), 234-236. Oct.2012.

#### **b. Conference attended**

##### **CONFERANCES (National- 11, International-1):-**

- Paper Presented entitled “Synthesis and characterization of Biphasic Hydro oxyappatite as a Biomaterial” in **National** Conference on Innovative Materials & Devices held at S.G.B.A.U. Amravati and Shri Shivaji College, Amravati on 24-25 June 2019.
- Paper Presented entitled “Evaluation of Biological Activities of Nanocrysattalline Zirconia synthesis via Combustion method” in **National** Conference on “Luminescence and its Application” held at Department of Physics, R.T.M. Nagpur University, Nagpur on 18-20 February 2016.
- Paper Presented entitled “Combustion Synthesis of Zirconia and study as Biomaterial” in **National** Conference on “Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016)” held at Department of Chemistry, S.G.B. Amravati University, Amravati on 29-30 January 2016.
- Paper Presented entitled “Combustion Synthesis and Characterization of Zirconia” in **National** Conference on “Recent Trends in Mathematics, Physics and their Applications” held at S.K. Art, Science & Commerce College, Akola on 19<sup>th</sup> March 2014.
- Paper Presented entitled “Hydroxyapatite-Zirconia Composite Biomaterial :A Review ” in **National** Conference on “Recent Trends in Mathematics, Physics and their Applications” held at S.K. Art, Science & Commerce College, Akola on 19<sup>th</sup> March 2014.
- Paper Presented entitled “Synthesis And Characterization Of Alumina-Zirconia Composite : A Biomaterial” in **National** Conference on “Advanced Materials” held at Department of Physics, Nabira Mahavidyalaya, Katol on 1<sup>st</sup> March 2014.
- Paper published entitled “Synthesis and Characterization Of Hydro-oxyappetite-Polylactone Nanocomposite” in **International** Conference on Material Science: Trends and Future-2014 held at Department of Physics, Dr. B.A.M., Nagpur on 17-18 Jan.2014
- Paper Presented entitled “Combustion Synthesis And Characterization Of Yttria-Partially Stabilized Zirconia (Y-PSZ) : A Biomaterial” in **National** Conference on Material Science: Trends and Future-2014 held at Department of Physics, Bharatiya Mahavidyalaya, Amravati on 10-11 Jan.2014.

- Paper Presented entitled “Synthesis, Characterization and Biocompatibility study of Hydroxyapatite: A Biomaterial” in **National** Conference on Current Advance in Biotechnology and Annual Meeting of Society for Biotechnologists (India) held at Department of Biotechnology, S.G.B.A.U. Amravati on 25-26 Nov.2013.
- Paper Presented entitled “Synthesis and Characterization of Hydroxyapatite: A Biomaterial” in **National** Conference on Synthesis and Applications of Navel Materials held at Nagpur on 5 Oct.2013.
- Participation in **National** Conference on “Recent Initiatives towards Green Electronics”, held at Brijlal Biyani College, Amravati on 8-9 February 2013.
- Paper Presented entitles “Photoluminance Study of Doped Zirconia” in **National** Conference on Recent Trends in Physics held at Darwha on 27-28 Oct.2012 and secured the **First Prize** in Poster Presentation.

**c. AWARDS/ACHIEVEMENTS:**

1. Participated and presented **Research Project** under category, PPG of theme area **Medicine and Pharmacy** for **S.G.B.A.U. Amravati (Colour Coat)** in **Avishkar-2014** at **Jalgaon** on 16-18 Jan.2014.
2. Photoluminance Study of Doped Zirconia” in **National** Conference on Recent Trends in Physics held at Darwha on 27-28 Oct.2012 **Best poster presentation award with Rank I.**
3. Participated and Stood **Second Rank** in “Science and Technology Exhibition” held at Sant Gadge Baba Amravati University, Amravati on 23 to 28 Feb. 2008.

**d. SEMINARS/ WORKSHOPS/STTP:-**

- Participated in work shop on “**Intellectual Property Rights**” held at Department of **Physics. SGBAU**, Amravati on August 26, 2016.
- Participated in “**Science Exhibition-2014**” held at S.G.B.A.U. Amravati, during 21 Feb. to 13 March 2014.
- Participated In “**AVISHKAR 2013**” at Sant Gadage Baba Amravati University Amravati.
- Participated in Theme Meeting on “**Recent Advance in Solid State Dosimetry (RASSD-2013)**”, held at **BARC, Mumbai**, from 17-18 Oct.2013.
- Participated in workshop and training course on “**Nanomaterials: Science and Technology**”, held at **Institute of Chemical Technology (ICT), Matunga, Mumbai** between June 10 -14, 2013.
- Participated in “**National seminar on Recent Trade in Nonobiotechnology**”, held at **Sant Gadge Baba Amravati University, Amravati** on 04 January 2013.
- Participated in One Day Seminar on Vivekananda’s Inclusive Perspective on Education jointly organized by Swami Vivekanand Study’s center, Student Welfare SGBAU Amaravati and Bhartiya Shikshan Mandal On 20 Sept 2013.
- Participated in One Day Seminar-cum-workshop on Personality Development at SGBAU Amravati on 8 April 2011.
- Participated in workshop on “**Recent Trends in Physics**” held at **Sant Gadge Baba Amravati University Amravati** during 17 to 19 Dec. 2009.
- Participated in “**Avishkar**” held at **Sant Gadge Baba Amravati University, Amravati** during 16 to 17 Dec. 2008.
- Participated in “**Science Exhibition-2004**” held at **Shri Shivaji Science College, Amravati** during 27 to 29 Dec.2004.

**13. Teaching Experience**

- ✓ Worked as **Asst. Professor at Shri Shivaji College, Akola** for Postgraduate Classes on **Adhoc Basis** and for undergraduate classes on **Clock Hours Basis** from July 2018 to April 2019.
- ✓ Worked as **Lecturer in Department of Physics, Sant Gadge Baba Amravati University Amravati** on Clock Hours Basis During **2009 to 2011**.

#### 14 Technical Skills

##### **COMPUTER PROFICIENCY:-**

Language : - C, Visual Basic, Oracle

O.S. : - Windows 98, 2000, Windows XP, Windows 7.

Courses : - MS OFFICE.