

Curriculum Vitae



1. **Name** : Dr. Sushil Deonath Charpe
2. **Date of birth** : 29th May 1986
3. **Permanent address** : Dr. S.D. Charpe, Pravin Nagar Behind VMV College
Amravati-444604
4. **Office address** : Department of Physics
J. D. Patil Sangludkar Mahavidyalaya,
Daryapur.
5. **Present Designation** : Assistant Professor,
Department of Physics,
J.D. Patil Sangludkar Mahavidyalaya,
Daryapur, Dist- Amravati
6. **Mobile no.** : +91- 9730950178
7. **E-mail** : sushildeo86@gmail.com
8. **Date of joining** : 17th January 2005
9. **Academic Qualification** :

Sr. No.	Education	Year of passing	College	Branch/ Specialization	Division
1.	Ph.D.	2017	S.G.B.AU Amravati	Physics	--
2.	M.Sc. Physics	Summer 2009	S.G.B.AU Amravati	Condensed Matter Physics	I
3.	B.Ed.	Summer 2008	S.G.B.AU Amravati	Physics, Maths	I

10. **Teaching experience** :

Courses taught	Name of the Institute/College	Duration
XI & XII	Six Year Full Time PGT Teacher at Shri. Shivaji Science College Amravati	6 year

U.G	J.D. Patil Sangludkar Mahavidyalaya, Daryapur	2 Year 04 Month till date
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11. Orientation/Refresher courses attended :

Name of the Course	Place	Duration	Sponsoring Agency
35th Online Short Term Course on E-Content Development	UGC – Human Resource Development Centre, GUJARAT UNIVERSITY, Ahmedabad	28/05/2020 To 03/06/2020	UGC, New Delhi
Online 4th Guru-Dakshata Faculty Induction Programme	UGC-Human Resource Development Centre of Gujarat University, Ahmedabad.	27/07/2020 To 25/08/2020	UGC, New Delhi
Faculty Development Programme (FDP) (Managing Online Classes and Co-creating MOOCS)	Teaching Learning Center Ramanujan College, University Delhi	07/06/2021 To 16/06/2021	HRDC- PMMMNM New Delhi
UGC- Sponsored Refresher Course in Physics	Centre For Professional Development in Higher Education (CPDHE) UGC-HRDC University of Delhi, Delhi.	04/10/2021 To 18/10/2021	UGC, New Delhi

Research Profile:

Ph. D. Topic: Gas Sensing Properties of ZnO Based Nanocomposites

Ph.D. Notification No: 141/207 dated 18/02/2017

Ph.D. Supervisor: Dr. F.C. Raghuwanshi

Ex-Dean of Faculty of Science and Engineering, SGBU, Amravati

Ex-Principal, Vidya Bharati Mahavidyalaya, Amravati

MRP Topic: Development and Characterization of Conducting Polymeric Metal-oxide based Sensing Devices

Area of Research: Nano-crystalline Oxide Gas Sensors, Polymer, Polyblends and Hybrid Oxide-Polyblends, Nano-Composites

Google Scholar Account Link:

<https://scholar.google.com/citations?hl=en&user=-GgAhIAAAAJ>

Research Gate Profile Link:

<https://www.researchgate.net/profile/Dr-Charpe>

12. Membership of Academic Bodies : 03

- 1] Life Member of Indian Association of Physics Teacher (IAPT).
- 2] Life Member of Indian Science Congress Association (ISCA), Kolkata.
- 3] Life Member the Indian Physical Society, Kolkata.

13. Research Publications:

Journal Papers: **05**

Conference Publications: International: **08** National: **06**

Books and Books Chapter:

1] Book

Book Title: Nano-Conjugate Material by *in-situ* Polymerization for Gas Sensor

Publisher: LAP Lambert Academic Publishing, 2021

ISBN: 978-620-4-73399-9

2] Book Chapter

Book Title: Impact of ICT in Teaching, Learning and Evaluation Process

Book Chapter: Review: ICT-Enhanced Tools for the Teaching, Learning and Assessment of Physics

Publisher: Harshwardhan Publication Pvt.Ltd, December 2021

ISBN: 978-93-85882-33-3

14. Conference/Seminar/Workshop attended :

Sr. No	Conferences/Workshop	Year	Place	Remark
1	NIUS Teacher Development Workshop on Thermal Physics And Statistical Mechanics	10 th -13 th Dec 2020	Homi Bhabha Centre for Science Education, TIFR, Mumbai	National Level
2	E- Conference International Interdisciplinary Virtual Conference on “Drug, Disease and Development”	9 th - 10 th Dec 2021	International Interdisciplinary Virtual Conference on “Drug, Disease	International Level

			and Development” Dept. of Chemistry, Mungasaji Maharaj Mahavidyalaya, Darwha	
3	E- Conference Two-days International Conference on Innovative Trends in Natural and Applied Sciences – 2021 (ICITNAS- 2021)	17 th -18 th Aug 2021	Mahatma Gandhi College Of Science, Gadchandur, Tah. Korpana, Dist. Chandrapur	International Level

15. A) Published Papers in Journals:

Sr. No	Title of Research Paper	Journal	Impact Factor
1	Characterization of Pure Nanostructure ZnO and its Application as gas sensor	Journal of Pure Applied and Industrial Physics Volume5(2),47-56, Feb 2015 ISSN 2319-8133 (Online)	2.07
2	Synthesis of Nano structure Zinc Oxide by Spray Pyrolysis and its Characterization for Gas Sensing Application	IPASJ International Journal of Electrical Engineering (IJEE) Volume 3, Issue 2, Feb 2015 ISSN 2321-600X	1.811 [ISRAJIF]
3	Synthesis and Characterization of Magnesium oxide Nanoparticles with 1:1 molar ratio via Liquid- Phase Method	International Journal of Application or Innovation in Engineering & Management (JAIEM) Volume 4, Issue 2, Feb 2015 ISSN 2319 - 4847	4.015 [ISRAJIF]
4	Synthesis, structural and gas sensing properties of pure zinc oxide nano thick film	Journal of Electron Devices, Vol. 21, April 2015, ISSN 1682 -3427	
5	Electrical Conductivity of Surface Activated Nanostructure ZnOAl ₂ O ₃ Thick Films	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 9 Issue II Feb 2021	7.429

Sr. No	Title of Research Paper	Conference	Journal
1	Effect of Surface Activation on Electrical Conductivity of Nanostructured Zinc Oxide Thick Film.	Vidya Bharati Mahavidyalaya, Amravati. 03 rd Jan 2010	<i>Proceedings of Conference</i>
2	Electrical Conductivity of Surface Activated Nanostructure ZnO Thick Films	Dept. of Physics Bharatiya Mahavidyalaya, Amravati. 10-11 Jan 2014	<i>International Journal of Basic and Applied Research</i> ISSN - 2278-0505
3	Zn ₂ SnO ₄ Modified ZnO Thick Films Resistors as LPG Sensor	Dept. of Physics Bharatiya Mahavidyalaya, Amravati. 10-11 Jan 2014	<i>International Journal of Basic and Applied Research</i> ISSN - 2278-0505
4	Synthesis and Characterization of SnO ₂ nanoparticles.	Dept. Physics Chemistry & Mathematics, Govt. College of Engineering, Amravati. 8-9 May 2014	Proceedings of Conference
5	Synthesis and structural properties of nanocomposite of PANI/ZnO by <i>in-situ</i> Polymerization.	National Conference on Chemical Science- 2016at Chemistry Dept. SGBAU, Amravati 29 -30 January 2016	Research Journal of Chemical Sciences (<i>Res. J. Chem. Sci.</i>) E-ISSN 2231-606X Vol. 6(5), 1-11, May (2016)
6	Spectroscopic and surface morphological study of poly (styrene)/ poly (vinyl acetate) composite thin films	International Conference on Recent Trends in Science & Technology, S.S.S.K.R. Innani Mahavidyalaya, Karja (Lad). 22-23 March 2018	Aayushi International Interdisciplinary Research Journal (AIIRJ) ISSN 2349-638x Impact Factor 4.574 Special Issue No. 25 UGC Approved Sr.No.64259
7	Microwave assisted synthesis of Palladium doped Zinc oxide nanostructures and their gas sensing applications	<i>International conference Intelligent Manufacturing and Automation 2018</i> (ICIMA 2018)	<i>Springer Journal: Proceedings of International Conference on Intelligent</i>

			Manufacturing and Automation
8	Synthesis and Characterization of SnO ₂ -ZnO composites nano Particles	National Conference on Recent Trends in Synthesis and Characterization of Futuristic Material in Science for the Development of Society(NCRDAMDS- 2018)	<i>International journal of scientific research in science and technology (IJSRST)</i> Vol 4 Issue 1 UGC Approved Journal no-64011, ISSN:2395-6011
9	CuO – Activated ZnO Thick Films For H ₂ S Gas Sensing At Lower Temperature.	International Interdisciplinary Virtual Conference on “ Drug, Disease and Development” December 2020	Scholars Impact: International Multidisciplinary Multilingual Peer Reviewed Research Journal, Vol 7 Issue 4, (125-132) 5.98
10	Pure Zinc Oxide Based Nano Thick Film For Water Vapour Sensing Application	International Interdisciplinary Virtual Conference on “ Drug, Disease and Development” December 2020	Scholars Impact: International Multidisciplinary Multilingual Peer Reviewed Research Journal, Vol 7 Issue 4, (125-132) 5.98
11	Water Vapour Sensing Mechanism Based on BaTiO ₃ Doped ZnO Nanocomposite Thick Films Sensor	Special Issue: International Conference on Innovative Trends in Natural and Applied Sciences – 2021	UGC Care Listed Journal: Journal of Advanced Scientific Research
12	Dielectric Constant Properties of UV- irradiated Pure and Polyblends Polystyrene-Polyvinyl acetate Thin	Gradiva Review Journal	UGC –Care Listed Group-II Journal
13	Particle Size Confinement of Hybrid Nanostructured Zinc Oxide / Polyaniline Matrix	Aayushi International Interdisciplinary Research Journal	Peer Reviewed Journal

14	AC conduction of Polythiophene composite thin films doped with Bromine	Aayushi International Interdisciplinary Research Journal	Peer Reviewed Journal
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16. Extracurricular, co-curricular and extension activities:

- 1] Working as Presiding Officer for 41- Naalwada Gram Panchayat General Election-2021 on dated 15th Jan2021
- 2] Nanotechnology: A New Era of Human Society” organized by Department of Physics, Late R. Bharti Arts, Commerce & Smt. S.R. Bharti Science College Arni Dist Yavatmal on dated 02/05/2020
- 3] Online Guest Lecture on ” Introduction to Renewable Energy Source” organized by Department of Physics, Late R. Bharti Arts, Commerce & Smt. S.R. Bharti Science College Arni Dist-Yavatmal on dated 21/01/2021
- 4] Online Guest Lecture on” Nanotechnology: A New Modern Technology” organized by Department of Physics, M.J. Fule Commerce, Science and V. Raut Arts College, Bhatkuli Dist- Amravati on dated 28/02/2021
- 5] Online Certificate Course on “Renewable Sources of Energy” organized by Department of Physics, Shri R.L.T. College of Science, Akola during 24/06/2021 to 29/06/2021
- 6] Convener of Online Guest Lecture’s Series: Physics collaboration with Amravati University Physics Teachers' Association (AUPTA)
- 7] Convener of Online Workshop on Recent Trends of Examination for Undergraduate Students (B.Sc.): Physics 2021
- 8] Coordinator of MCQ Based Online Quiz Competition in Basic Concept of Physics -2021 on occasion of Science Day
- 9] Resource Person in Workshop on Developing E-Contents for Teaching In Easy Way on dated 14/07/2021
- 10] Worked as Judge for “Innovative Experiment Presentation Competition for UG and PG students” which held at the Department of Physics Gopikabai Sitaram Gawande Mahavidyalaya Umarched
- 11] Member of local advisory committee of one day international multidisciplinary e- conference on “Recent Innovations in Science and Technology” (RIST-2022) at L. R. Bharti Arts, Commerce and S.R. Bharti Science College Arni.
- 12] Worked as External Examiner and Internal Examiner in SGBAU.

Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

Date: 08/08/2022



Dr. Sushil D. Charpe

Assistant Professor
Dept. of Physics, JDPS, Daryapur