

Faculty Profile

Name	Dr. Sarita Vijay Agnihotri
Qualification	M.Sc., M.Phil, Ph.D.,B.Ed.
Designation	Assistant Professor
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1. **Name in Full** : Dr. Sarita Vijay Agnihotri

2. **Address for Correspondence**: C/O Hemant Kulakarni, Laxmi Nagar, Balaji Society,
Yavatmal

3. **Date of Birth**: 20/05/1978

4. **Designation**: Assistant Professor (Physics), Amolakchand Mahavidyalya Yavatmal.

5. Educational Qualification:

Sr.No.	Degree	Year	University
1.	B.Sc.	1999	Sant Gadge Baba University, Amravati
2.	M.Sc.	2001	Sant Gadge Baba University, Amravati
3.	M.Phil.	2009	Sant Gadge Baba University, Amravati
4.	Ph.D.	2018	Sant Gadge Baba University, Amravati
5.	B.Ed.	2002	R.T.M. University, Nagpur

Achievement

- Third Merit in M.Sc. (Phy) in Sant Gadge Baba Amravati University, Amravati.

Topic of Research

- **Topic of Ph.D.** : Preparation, characterization and gas sensing behavior of nanocrystalline metal aluminate spinel composites.
- **Topic of M.Phil.** : Optical and transport properties of chemically deposited Cr : Sb₂Se₃ thin films.

Seminars /Webinars/National/ International Conferences/ FDP Participated

1. 17-21/05/2020, Online Faculty Development Program series on 'Learning, Pedagogy and effective Use of Case Methodology', ASMA Group Pune.
2. 22-26/06/2020, International Faculty Development Programme on 'ICT Tools for Effective Teaching' Sathyabama Institute of Science and Technology, Chennai.

3. 11/07/2020, International conference on 'Advanced Materials::Smart Future', Sant Gadge Maharaj Mahavidyalaya, Hingana, Nagpur.
4. 15-17/07/2020, Online International Lecture Series on 'Bridging Research Peerspective-2020', G.V.I.S.H., Amravati.
5. 15-19/07/2020, Online Faculty Induction Program, Jagdamba Mahavidyalaya, Achalpur.
6. 27/07- 15/08/2020, Online certificate course on 'Nanomaterials Synthesis and characterization Techniques (NSCT-2020)', Shri Shivaji Science College, Amravati.
7. 29/08/2020, 'Virtual Labs : Effective Tools For Teaching and Learning', Cumins College of Engineering for Women, Nagpur.
8. 26/12/2020, International webinar on 'Recent Trends In Physical And Mathematical Sciences', Late Rajkamalji Bharti Art's, Commerce and Smt. Sushilabai R. Bharti Science College Arni.
9. 21/01/2021, National webinar on 'Innovation in Education and Research', Amolakchand Mahavidyalaya, Yavatmal.
10. 16-17/01/2021, National webinar on 'NAAC Accreditation, A First Step Towards Achieving Excellence In Quality Education', R. J. College of Art's, Science and Commerce, Ghatkopar, Mumbai
11. 01-02/02/2021, Webinar on 'Recent trends of Space Technology in Geographical science', Symbiosis Institute, Pune.
12. 20/02/2021, National webinar on 'Emerging Trends in Entrepreneurship Research', Karmaveer Bhaurao Patil College vashi, Navi Mumbai.
13. 06/03/2021, National webinar on 'Recent Trends in Material Science and Applications (RTMSA-2021)' Art's, Commerce and Science college, Arvi.
14. 25-27/03/2021, International Conference on 'Nanomaterials and Nanotechnology', Department of physics University of Mumbai.
15. 26/08 to 08/09/2021, Online certificate course on 'Nanomaterials Synthesis and characterization Techniques (NSCT-2021)', Shri Shivaji Science College, Amravati.
16. 06-08/10/2021, Three days faculty development program on 'Recent Advancement in Nanomaterial and Green and sustainable Engineering', Rajiv Gandhi Institute of technology, Mumbai.

Research Papers Published/Accepted in the Referred Journals

1. S. V. Agnihotri, V. D. Kapse, "Structural and morphological studies of spinel type nanocrystalline $\text{Co}_{0.5}\text{Cr}_{0.5}\text{Al}_2\text{O}_4$ ", **International Journal of Chemical and Physical Sciences**, 5(5) 89-93, September-October 2016.
2. S. V. Agnihotri, V. D. Kapse, "Gas sensing properties of nanosized $\text{Mg}_{0.2}\text{Cd}_{0.8}\text{Al}_2\text{O}_4$ based thick film sensor", **Research Journal of Chemical Sciences**, 6(11) 17-21, November 2016.
3. S. V. Agnihotri, V. D. Kapse, F. C. Raghuvanshi, V. S. Kalyamwar, "Synthesis of nanocrystalline $\text{Mg}_{0.5}\text{Cd}_{0.5}\text{Al}_2\text{O}_4$ for LPG sensing", **Multilogic in Science**, VOL.-VI, ISSUE XIX, JAN 2017.

4. **S. V. Agnihotri**, V. D. Kapse, F. C. Raghuwanshi, V. S. Kalyamwar, "Structural and gas sensing studies of chromium doped cobalt aluminate spinel composite", **International Journal Of Current Engineering And Scientific Research**, VOL.-V ISSUE -1, 369-378, 2018
5. **S. V. Agnihotri**, V. D. Kapse, "Nanocrystalline $Mg_{0.6}Cd_{0.4}Al_2O_4$ Thick Film Gas Sensor for the Detection of LPG, CH_4 , CO_2 ", **International Journal of Scientific Research in Science and Technology**, VOL.-8 ISSUE -1, 297-301, 2021.

Research papers published in National/International level Conference/ Seminar Proceedings:

1. **S. V. Agnihotri**, V. D. Kapse, F. C. Raghuwanshi, A.U. Bajpeyee, "Synthesis of $MgAl_2O_4$ nanoparticles by co precipitation method", National conference on Novel synthesis of advanced material and their applications (NSAMA-2015) organized by Department of Physics, Arts, Commerce and Science College, Maregaon, Dist. Yavatmal (M.S.) on 16 February 2015 (ISBN 978-81-930894-1-5).
2. **S. V. Agnihotri**, V. D. Kapse, "Synthesis of Cd doped $MgAl_2O_4$ by co precipitation method" National conference on Emerging Trends In Material Characterization organized by Padmashri Vikhe Patil Arts, Science and Commerce College, Pravaranagar, Dist. Ahmednagar (M.S.) during 9-10 February 2016 (ISBN: 978-93-5158-588-6).
3. **S. V. Agnihotri**, V. D. Kapse, "Gas Sensing Properties Of $Co_{0.2}Cr_{0.8}Al_2O_4$ towards LPG", Intranational conference on Advances in Physics, Chemical and Mathematical Sciences organized by Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur, during 13-16 February 2020.

Research Papers Presented in National level Conference/Seminar

- **S. V. Agnihotri**, V. D. Kapse, F. C. Raghuwanshi, "Synthesis of nanocrystalline metal aluminates by co precipitation route" National Seminar on Advances in Innovative Materials and Application's (NSAIMA-2013) organized by Gopikabai Sitaram Gawande Mahavidyalaya, Umerkhed, Dist. Yavatmal (M.S.) on 21 September 2013.
- **S.V. Agnihotri**, V. D. Kapse, "Preparation of nanocrystalline $Cd_{0.5}Mg_{0.5}Al_2O_4$ for gas sensing" 22nd National Conference on Luminescence and its Applications (NCLA-2016) organized by Department of Physics, R.T.M. Nagpur University, Nagpur (M.S.) during 18-20 February 2016.
- **S. V. Agnihotri**, V. D. Kapse, "Synthesis and characterization of chromium doped cobalt aluminate spinel" National Seminar on Nanotechnology and Nanoengineering (NSNN-2016) organized by Department of Chemistry, Arts, Commerce and Science College, Kiran Nagar, Amravati (M.S.) on 29 September 2016.

Teaching Courses:

1. Mechanics, Waves- Oscillations and Properties of Matter (B.Sc.- I Semester I)
2. Kinetic Theory, Thermodynamics and Electric Currents (B.Sc.- I Semester II)
3. Statistical Mechanics, Subject Code- 2862 (M.Sc. II Semester III)
4. Nanoscience and Nanotechnology, Subject Code -2877 (M.Sc. II Semester IV)

Other Activities:

1. Work for the conduction of SGB Amravati university 2020 examination, AMV, Yavatmal.
2. Work for the conduction of SGB Amravati university 2021 examination, AMV, Yavatmal.
3. Worked in admission committee 2021-22, AMV, Yavatmal.

Work Experience:

- 15 years teaching experience in A.C.S. college, Kiran nagar, Amravati.
- 2 years teaching experience in Public school, Wani.
- 10 years experience of H.S.C. Board valuation.
- 2 years experience as Deputy Conductor in H.SC. exam.
- Worked as Board's Practical external and internal examiner.
- Worked as In-charge of Inter school General knowledge exam.
- Currently working as full time Assistant Professor in Amolakchand Mahavidyalaya, Yavatmal.

Orientation/ Refresher/FDP Participated

Date	Name of the course	Conducting Organization	Rank Achieved
14-28/08/2020	Two week online faculty development programme	Ramanujan college, Delhi	A ⁺
01-30/09/2020	Four week Induction/ orientation programme	Ramanujan College, Delhi	A ⁺
08-22/03/2021	Two week online Interdisciplinary Refresher course on 'Blended Learning and Flipped classroom'	Ramanujan college, Delhi	A
27/10/2021 To 10/11/2021	Two week refresher course in 'Physics'	Ramanujan college, Delhi	A ⁺

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02/03/2022