

RESUME



Personal Information

Name: -	Dr. Sangita Uttareshwar Shinde
Employee Code:	2711002176
Date of Birth:	20 th April 1971
Joining Date: -	02 nd November 2010
Department: -	Physics
Designation: -	Associate Professor
Category: -	Open
Gender: -	Female
Mobile No: -	9765755888
Email: -	sangitamawal@gmail.com , sangitashinde20jan@gmail.com
Blood Group: -	AB +ve
Current Address: -	Plot no 20/8, L-Sector, N-11, Pathrikar Nagar, Hudco-corner, Chhatarapati Sambhaji Nagar, 431001, M.S. India
Permanent Address: -	-Same as above -

Academic Qualifications: -

Examination	Name of the Board/ University	Year of Passing	Percentage of Marks Obtained	Division / Class/ Grade	Subjects
SSC	Aurangabad	June - 1987	64%	I	Eng, Sanskrut, Sci, Math, His, Geog.
HSC	Aurangabad	June - 1989	56%	II	Phy, Chem, Eng, Mar, Psy,
B.Sc	Marathwada University	June - 1992	61.38%	I	Physics, Chemistry, Electronics

M.Sc[PHYSICS]	Dr. Babasaheb Ambedkar Marathwada University	June - 1994	63.20%	I	Physics and Electronics (as a special subject)
M.Sc[COMPUTER SINCENCE]	Dr. Babasaheb Ambedkar Marathwada University	June - 2001	82.91%	Distinction	D.E, Software Engineer, A.I.,C
PG Diploma[COMPUTER APPLICATION]	Dr. Babasaheb Ambedkar Marathwada University	June - 1995	69.5%	I	BASIC, C language, Digital Electronics, Statistics,
B.Ed	Dr. Babasaheb Ambedkar Marathwada University	June - 1996	68.70%	I	Science , Maths

Research Degree (s)

Degrees	Title	Date of award	Name of University
Ph. D (in Physics)	“Ultrasonic studies on behavior of molecular interaction in liquid mixture system. “	June – 2007	Swami Ramanand Teerth. Marathwada University

Appointments held prior to Joining this Institution

Sr. No.	Designation	Name of Employer	Date of Joining	Date of Leaving	Reason of leaving if any
1	Lecturer	Vivekanand College, Aurangabad	5 th Sep 1996	25 th Jun 2009	Good opportunity
2	Principal	Rajanitaipatil BCS College for Women, Cidco-N-5, Aurangabad.	25 th Jun 2009	31 st Oct 2010	Permanent Job Opportunity in Senior college

Posts held after Appointment in this Institution: -

Designation	Department	Date of Joining	
		From	To
Assistant Professor	Physics	2 nd Nov. 2010	Till date

Teaching and Research Experience:-

Sr. No.	UG	PG	Research Experience	
1	16 years (non-Grant) + 14 years (Granted)	12 Years (Computer Science)	20 years	

Fields of Specialization under the Subject / Discipline –

Degree	Specialization
U.G	Physics, Chemistry, Electronics
P.G	Physics (Electronics) , Computer Science
Ph. D.	Physics

Orientation / Refresher Course/ FDP/ MOOC/ Attended -

Sr. No	Title of the Course	Place	Date and Duration (Period)	Name of Organizer
1	Orientation course	Dr.Babasaheb Ambedkar Marathwada University, Aurangabad(M.S.)	1 st Feb to 28th Feb 2013	Academic Staff College
2	Refresher Course, “ E-Governance & E-Learning ”	,Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	04th Sep. 2013 to 27th Sep. 2013	Academic Staff College
3	Refresher Course in Computational methods in Basic science	,Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	06/08/2018 to 29/08/2018	HRDC, Dr. BAMU, Aurangabad
4	Refresher Course in Environmental Studies & Sustainable Development(ID)	,Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	01/10/2019 to 13/10/2019	HRDC, Dr. BAMU, Aurangabad
5	FDP on Managing online classes and co-creating Moocs 2.0	MHRD Pandit Madan Mohan Malaviya National mission on teachers and Teaching, Ramanujan College, Delhi.	18/5/2020 to 13/6/2020	MHRD Pandit Madan Mohan Malaviya National mission on teachers and Teaching, Ramanujan College, Delhi.

6	54th Online Short Term Course on E - Content Development”	GUJARAT UNIVERSITY, Ahmedabad.	11/06/2020 to 17/06/2020	UGC – HRDC, GUJARAT UNIVERSITY, Ahmedabad.
7	2 nd Online Short Term Course on “National Education Policy”.	GUJARAT UNIVERSITY, Ahmedabad.	23/08/2022 to 29/08/2022	UGC – HRDC, GUJARAT UNIVERSITY, Ahmedabad.

Involvement in University Work- Management Council/Academic Council/BOS / Syllabus Restructuring/Paper Assessment/Paper Setting/ Examination related Duties/Any other:-

1	Invigilation	Yearly	Yearly
2	Examiner for Practical exams	Yearly	Yearly
3	Home Assessment	2011	2018
4	University Assessment	Yearly	Yearly
5	Member of Paper setting Committee of B.Sc. III	Yearly	Yearly
6	Chairman of Paper setting Committee of B.Sc. I year/ I sem/ II sem/ I sem NEP	Yearly	Yearly
7	Member of Paper setting Committee of B.Sc. Non-Conventional Course	Yearly	Yearly
8	Worked as a Understudy for University Theory Examination	2015	2016
9	Worked as a IT – Coordinator for University Theory Exams June 2020 online Exams	June 2020	Aug 2020
10	Worked as a IT – Coordinator for University Theory Exams of UG and PG M/A 2021 online Exams	April 2021	May 2021

Involvement in College Work/Committees:

Sr. No	Name of Activity	From Date	To Date
1	In-charge Head of Computer Science Department	02 nd Nov 2010	Till date
2	Member of Cultural Committee	Nov 2010	2011
3	Member of IQAC	2010	2014
4	In charge of Remedial Teaching	2010	2011
5	Member of Women's Grievance	2011	2021

	Committee(VISHAKHA)		
6	Worked as member of Student Forum	Yearly	Yearly
7	Member of Placement Cell	Yearly	Yearly
8	Member of Interview committee and subject expert for Computer Science at Pratishthan Mahavidyalaya, Paithan, Aurangabad	Yearly	Yearly
9	Member of Admission Committee	2011	Yearly
10	Internal Assessment (Test, Tutorial, Seminar)	2012-13	Till date
11	Member of Stage Committee	2010	2024
12	Worked as a Examiner for Mahanadi , Rangoli, musical chair Computation in gathering	2010	2020
13	Member of Website Committee	2014	Till Date
14	Worked as Polling Officer	Election 2014-15	
15	Member of Anti-ragging Committee	Jun 2015	Jun 2021
16	Member Criteria II	2014	2018
17	Member of Research Criteria III	2017	Tii date
18	Member for Constitution of Women's anti-Sexual harassment Committee	Jun 2015	Jun 2021
19	In charge of Compulsory Computer Course	Jun 2021	Jun 2024
20	YCMOU Counsellor for B.Sc. Physics	Jun 2015	Till date
21	Chairman of Admission Committee	June 2011	Till date
22	Chairman of Time Table Committee	June 2011	Till date
23	Chairman University Practical Exam Time Table Committee	May 2021	March 2022

Research Papers published in Peer Reviewed / UGC listed/ UGC care listed Journals:

Sr. No.	Title of paper	Journal Name, Page No, Vol. No., Year of Publication	ISSN/ ISBN No.	Impact Factor, if any	Link if any
1	Ion-solvent interactions studies in aqueous manganous chloride solution by ultrasonic velocity measurement at different temperatures	Scholars Research Libbrary, Pages From 107 To 113 Published on 01 st April 2011	ISSN No: 0976-0970		<u>Available Online:</u> http://www.scholarsresearchlibrary.com/archive.html
2	Acoustical study of aqueous manganese chloride solutions at varying temperatures by ultrasonic technique	Journal of Chemical and Pharmaceutical Research Pages From 432 To 438 Published in June 2011 (International)	ISSN No: 0975-7384		<u>Available Online:</u> http://www.jocpr.com
3	Studies in Thermodynamic properties of Urea in aqueous solution at different temperatures.	International Journal of Systems, Algorithms and Applications Pages From 56 To 59 On 13 th May 2013	ISSN Online: 2277-2677		http://www.ij saa.com/Volume 3, Issue 6, may 2013, ISSN online:2277-2677
4	ICT:A Modern Tool for Effective Science Teaching.	Vishwakarma College of Arts, Commerce and Science, Pune. Pages From 73 To 76 On 28 th -29 th Nov. 2013	ISBN: 978-93-83414-48-2		
5	‘Acoustical Studies of Some Bio-Molecule Aqueous Solution at Different Temperatures Using Ultrasonic Technique’	International Journal of Science and Research, p no-687-690, 2014	ISSN-2319-7064	Impact factor-3.358	<u>Available Online:</u> http://www.ij sr.net
6	Thermodynamic studies on some Bio-molecule Aqueous solution at 303.15K using Ultrasonic Technique	International Journal of Science and Resarch (IJSR), Vol. 3, Issue 11:2910-2912, Nov 2014,	Online ISSN:2319-7064,	Yes Impact factor:3.358	<u>Available Online:</u> http://www.ij sr.net
7	Ultrasonic study of Intermolecular association through hydrogen bonding	J. Adv. in Appl. Sci. and Tech., Vol. 1(2), 2014, pg.	Online ISSN 2393-	Yes	

	in binary liquid mixture at 308K	54 To 57	8196		
8	Magnetic studies in Ni-Zn ferrites synthesized by oxalate precursors	J. Adv. Appl. Sci. and Tech., Vol. 1(2), (2014) , pg.64 To 66	Online ISSN-2393-8196	Yes	
9	Synthesis, structural and ultrasonic characterization of CuO nanofluid	International Journal of Science and Research (IJSR), 208-210, Jan 2015,	Online ISSN: 2319-7064,	Yes Impact factor: 4.438.	http://www.ijer.net
10	Ultrasonic study of molecular interactions in some Bio-molecule aqueous solution at 308 K,	International Journal of Science and Research (IJSR), Vol.4 (2) Feb 2015, from 407-409	Online ISSN:2319-7064,	Yes Impact factor: 4.438.	http://www.ijer.net
11	[Ultrasonic studies on some bio-molecule aqueous solution at 303.15K]	Int. J.Adv. Res. Basic and Appl.Sci. Vol. 2(1), (2015), From 53 To 55	ISSN 2394-4072 [Dec2015		http://www.ijer.net
12	[Magnetic characterization of lithium substituted Ni-Zn ferrites]	Int. J.Adv. Res. Basic and Appl.Sci. Vol. 2(1), (2015), From 85 To 88	ISSN-2394-4072 [Dec-2015]		
13	[Ultrasonic Investigations of Drug Piper Nigrum in Metal Ion at 303.15K Temperatures]	BIONANO FRONTIER Vol.8, Issue -3 (2015) From 168-170	ISSN 0974-0678 [Dec-2015]	(UGC-listed)	http://www.bionanofrontier.org
14	Overlay Studies of Microstrip Ring Resonators using pico-second pulse Time Domain Transmission Technique in Microwaveregion	BIONANO FRONTIER Vol.8, Issue -3,2015, pp168-170	ISSN 0974-0678 [Dec-2015]	(UGC-listed)	http://www.bionanofrontier.org
15	ICT-A Modern Tool for effective Teaching learning process,	International Journal Kesona Report, Publisher Kesona Report Vol. 1, Issue 1,Dec (2016),from163-167	ISSN: 2456-2025		
16	Information Communication Technology (ICT in Higher education; A Birds eye View”,	International Journal Kesona Report, Publisher Kesona Report Vol. 1, Issue 1,DEC(2016), From 75-79	ISSN: 2456-2025		
17	Acoustical and excess parameters in binary	Journal of Pure and Applied Ultrasonics,	ISSN: 0256-		

	liquid mixture at temperature 303.15K,	Publisher :Ultrasonics Society of India Vol.39(1), Jan-mar 2017,from 1-7	4637		
18	Applications of Nanomaterial in Medicine,	International Journal of Advance Research in Basic and Applied Sciences, Rushi Publication Jan-2017 From 58 To 61	ISSN : 2394-4072		
19	Application Of Nanotechnology For Detecting Effect Of Pollution,	BIONANO FRONTIER, vol. 10(2), July 2017	ISSN 0974-0678, online: 2320-9593,	UGC-listed	www.bionanofrontier.org
20	Electrical Characterization of SnO ₂ based thick film resistors loaded with an optimized Sb:Sn alloy,	International Journal for Research in Applied Science & Engineering Technology(IJRASET), vol 6,II, Feb. 2018, pg.470-476	ISSN: 2321-9653,	UGC-listed Impact factor:S J 6.887	<u>Available Online:</u> http://www.ijraset.com
21	Acoustica & excess parameters in binary liquid mixture at temp. 303.15K,	J. Pure Appl. Ultrason 39(2017)pp. 1-7		UGC-listed	
22	Mobile application for teaching physics	International Journal of Research and Analytical Reviews (IJRAR March 2019, Volume 6, Issue 1, pg. 47-51)	(P- ISSN 2349-5138)	(UGC-approved Journal no.- 43602) IJRARI F-5.75	Available Online: http://www.ijrar.org
23	Smartphone applications for health management	International Journal of Research and Analytical Reviews (IJRAR March 2019, Volume 6, Issue 1, pg. 38-41)	(P- ISSN 2349-5138)	(UGC-approved Journal no.- 43602) IJRARI F-5.75	<u>Available Online:</u> http://www.ijrar.org
24	Acoustic study of officinale zingiber and zinc chloride at varying concentration by ultrasonic investigation	International Journal of Advance & Innovative Research (IJAIR)Jan-March 2019, Volume 6,	(e- ISSN2394-7780)	(UGC-approved Journal no.-	https://online.library.wiley.com/author-d-by/Shinde/Sa

		Issue 1(XIX),part-2, pg. 68-71)		63571) IJAIRIF -7.36	ngita+ U. o r https://online library .wiley.com/to c/152 13900/392/1
25	Estimation of excess parameters through acoustic studies of urea based aqueous system at 298.15k	Research Journey- International multidisciplinary journal (March 2019, Social-Issue 168-B, pg.112-114)	(ISSN-2348-7143)	(UGC-approve dJournal no.-40705) SJIF IF-6.261	
26	Synthesis and acoustical characterisation of binary liquid system at temperature 313.15 k	Review of Research Journey (March 2019, Volume-1, Issue-1, pg.46-50)	(ISSN-2249-894X)	(UGC-approve dJournal no.-40705) UIF IF-5.7631	
27	Time domain reflectometry techniques to study simulation dielectric spectra of polar liquids	Review of Research Journey (March 2019, Volume-1, Issue-2, pg.90-94)	(ISSN-2249-894X)	(UGC-approve dJournal no.-40705) UIF IF-5.7631	
28	Ultrasonic investigation of herbal extract officinale zingiber at temperature 308.15 k	Review of Research Journey (March 2019, Volume-1, Issue-1, pg.51-55)	(ISSN-2249-894X)	(UGC-approve dJournal no.-40705) UIF IF-5.7631	
29	Ultrasonic Investigation of Drug <i>Zingiber officinale</i> with Metal Ions as a Function of Concentration	WILEY-VCH <i>Macromol. Symp.</i> SCOPUS (<i>Macromol. Symp.</i> 2020, 392, 2000080(1 to 4))	DOI: 10.1002/masy.202000080		DOI: 10.1002/masy.202000080 http://www.ms-journal.de

30	Jayakwadi Hydro-Power plant- A Birds Eye view	OUR HERITAGE(UGC-Care listed) (Vol-67, Special Issue-11, 528-535, Dated 1st Feb 2020)	ISSN (Online) : 0474-9030		https://archives.ourheritagejournal.com/volume/vol67-issue/vol67-issue11s.pdf
31	Thermal Power Station at Parli Vaijnath: A Review	OUR HERITAGE(UGC-Care listed) (Vol-67, Special Issue-11, 357-360, Dated 1st Feb 2020)	ISSN (Online) : 0474-9030		https://archives.ourheritagejournal.com/volume/vol67-issue/vol67-issue11s.pdf
32	Characterisation Techniques for Monuments: An Overview	OUR HERITAGE(UGC-Care listed) (Vol-67, Special Issue-11, 331-335, Dated 1st Feb 2020)	ISSN (Online) : 0474-9030		https://archives.ourheritagejournal.com/volume/vol67-issue/vol67-issue11s.pdf
33	Study on Physico-Chemical parameters of Godavari, Darna and Kadva Rivers, Nashik, (Maharashtra) India.	OUR HERITAGE(UGC-Care listed) (Vol-67, 367-371, 1st Feb 2020)	ISSN (Online) : 0474-9030		https://archives.ourheritagejournal.com/volume/vol67-issue/vol67-issue11s.pdf
34	Dielectrical Analysis of Agricultural Soil of Marathwada Region at J-Band Microwave Frequency	OUR HERITAGE(UGC-Care listed) (Vol-68, Special Issue-38, 280-286, 13-Feb-2020)	ISSN (Online) : 0474-9030		https://archives.ourheritagejournal.com/volume/vol67-issue/vol67-issue11s.pdf
35	Soil contamination: a physical perspective	AEGAEUM JOURNAL (Sep. 2020, Volume 8, Issue 9, pg. 739-744)	ISSN NO: 0776-3808	(UGC-CARE-approved-Group-II Journal)	http://aegaeu.m

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36	Impact of covid-19 on the teaching and learning of science in higher Education	B.Aadhar' International Peer-Reviewed Indexed Research Journal (NOV 2020, Issue No, 252 (CCXLIII), pg. 52-55)	(ISSN : 2278-9308) www.aadharsocial.com		https://saibab.aartscollege.edu.in/wp-content/uploads/2023/05/NATINAL-LEVEL-WEBINAR-2021-2022.pdf
37	Covid – 19 pandemic: wake – up call of digital transformation for Education system	B.Aadhar' International Peer-Reviewed Indexed Research Journal (NOV 2020, Issue No, 252 (CCXLIII), pg. 264-268)	(ISSN : 2278-9308)	-	https://saibab.aartscollege.edu.in/wp-content/uploads/2023/05/NATINAL-LEVEL-WEBINAR-2021-2022.pdf
38	Magnetic properties of nickel ferrite magnetic nanoparticles Prepared via glycine assisted sol-gel auto combustion Route.	Journal of Physics: Conference Series (1644 (2020) 012022, pg.1-5)	doi:10.1088/1742-6596/1644/1/012022	Scopus Journal	doi:10.1088/1742-6596/1644/1/012022 https://iopscience.iop.org/journal/1742-6596
39	Structural and elastic properties of $\text{Zn}_x\text{Fe}_{3-x}\text{O}_4$ ferrites synthesized by Biological method	Journal of Research and Development, (Vol. 10, Issue. 10, August 2020, pg.109-122)	(ISSN: 2230-9578)	-	https://jrdrvb.org/
40	Facile synthesis, structure and infrared Properties of CoFe_2O_4 ferrite nanoparticles,	AIP Conference Proceedings 2369, (CFN), 020182 (13, SEP. 2021, pg.(1-6)	https://doi.org/10.1063/5.0061026	(SCOPUS-JOURNAL)	https://doi.org/10.1063/5.0061026
41	Facile synthesis and characterization of copper oxide (CuO) Nanoparticles via sol-gel	Journal of the Maharaja Sayajirao University of Baroda	ISSN: 0025-0422	(UGC CARE Listed-Group-I)	https://msu-new-2023-ec2-ubuntu-unzip.s3.ap-

	method (volume-55, no.2 2021, 410-412)				south-1.amazonaws.com/asset/storage/CkEditor/Vol.%205%20(2021).pdf
42	Nanoparticles and their applications in agriculture: a Review(volume-55, no.2 2021, 512-523)	Journal of the Maharaja Sayajirao University of Baroda	ISSN: 0025-0422	(UGC CARE Listed-Group-I)	https://msu-new-2023-ec2-ubuntu-unzip.s3.ap-south-1.amazonaws.com/asset/storage/CkEditor/Vol.%205%20(2021).pdf
43	Viscosity, Density and Ultrasonic Study of <i>officinale zingiber</i> with ZnCl ₂ at 318.15 K (Volume 7, Number 2 April–June 2022, 110-114)	Asian Journal of Organic & Medicinal Chemistry	ISSN: 2456-8937	(UGC CARE APPROVED JOURNAL)	https://www.researchgate.net/profile/Pallavi-Nalle/publication/368425979_Viscosity_Density_and_Ultrasonic_Study_of_officinale_zingiber_with_ZnCl2_at_31815_K/links/63e75a81c002331f726e09d6/Viscosity-Density-and-Ultrasonic-Study-of-officinale-zingiber-with-ZnCl2-at-31815-K.pdf
44	Nanofluids: An Innovative Technology for Heat Transfer Mechanism (Volume 7, Number 2 April–June 2022, 72-78)	Asian Journal of Organic & Medicinal Chemistry	ISSN: 2456-8937	(UGC CARE APPROVED JOURNAL)	https://asianpubs.org/index.php/ajomc https://jascca.org/Nacc_Documents/Crit

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45	“Low temperature synthesis of In doped cobalt ferrite and investigations of structural, magnetic and dielectric properties” (22 November 2022)	Solid State Communications- (Elsevier)	https://doi.org/10.1016/j.ssc.2022.115016	1.934	https://doi.org/10.1016/j.ssc.2022.115016
46	The National Education Policy and Higher Education: A Bird Eye View (Vol. X, Issue I, Oct. 2023, pg.62-64)	New Voices Multilingual International Peer Reviewed Journal of Multidisciplinary Studies	ISSN 2231-3249	(Peer-Reviewed)	https://pratishthanmahavidyalaya.ac.in/wp-content/uploads/2024/12/D.r.-S.-U.-Shinde-Paper-23-24.pdf
47	Electrical Parameters of Soil with Organic Matter at J Band (Volume 10 Issue 13, 30 Oct. 2023, pg. 322-325)	International Journal of Scientific Research in Science and Technology	ISSN: 2395-6011 Online ISSN: 2395-602X		www.ijrst.com
48	Fabrication and Characterization of Some metal Oxide Nanoparticles using Sol-Gel Method (www.ijrst.com)	International Journal of Scientific Research in Science and Technology) Sep-Oct-2024, Volume 11 , Issue 19(213-216)	Online ISSN: 2395-602X	(Peer-Reviewed)	doi : https://doi.org/10.32628/IJSRST
49	An Overview of Nano science and its Applications(www.ijrst.com)	International Journal of Scientific Research in Science and Technology, Sep-Oct-2024, Volume 11 , Issue 19(385-390)	Online ISSN: 2395-602X	(Peer-Reviewed)	doi : https://doi.org/10.32628/IJSRST An Overview of Nanoscience and its Applications
50	Rare Earth Elements as Effective Dopants for ZnO Nanostructures : A Comprehensive Overview	International Journal of Scientific Research in Science and Technology, Sep-Oct-2024, Volume 11 , Issue 19(223-235)	Online ISSN: 2395-602X	(Peer-Reviewed)	doi : https://doi.org/10.32628/IJSRST
51	Tailoring and Characterization of Copper	Int J Sci Res Sci & Technol. Sep-Oct-	Online ISSN:	(Peer-Reviewed)	doi : https://doi.org

	Oxide Nanoparticles by Sol-Gel Route	2024, 11 (21) Page No : 64-67	2395-602X	d)	g/10.32628/IJ-SRST Tailoring and Characterization of Copper Oxide Nanoparticles by Sol-Gel Route
52	Study of Acoustic Parameters for Binary Liquid Mixture Using Ultrasonic Interferometer	Int J Sci Res Sci & Technol. Sept-Oct-2024, 11 (21) Page No : 214-218	Online ISSN: 2395-602X	(Peer-Reviewed)	doi : https://doi.org/10.32628/IJ-SRST
53	Viscosity and Density Characterization of 1-((4-Methoxy-3, 5-Dimethylpyridin-2-Yl) Methyl)-3-Methyl Thiourea in EthanolWater Mixture	International Journal of Scientific Research in Science and Technology (www.ijrst.com) Volume 12 Issue 7(pg-284-288)	Online ISSN: 2395-602X		doi : https://doi.org/10.32628/IJ-SRST

Publications (Books/ chapters in Books/Editor of Book):

Sr. No	Publication Type (Books/ chapters in Books/Editor of Book)	Title of Book / Chapters	Publishers Name	Publisher ISSN/ ISBN No.	International/ National Publishers
1	Chapter in Book (Objective Physics for B. Sc Students)	Real Gases and Transport Phenomena Pg. No. 36-42	Rushi Publication	ISBN: 978-81-951034-9-2	National
2	Chapter in Book (Innovative Research in Science and Technology)	Novel application of nanotechnology for detecting the effect of pollution pg.no. 148-151	Rushi Publication,	ISBN: 978-81-951034-5-4	National
3	Chapter in Book (Advanced Research in Science and Technology)	Ultrasonic Assisted Synthesis and Acoustical property studies of some Bio-Molecule aqueous solution as a function	Rushi Publisher,	ISBN NO.978-81-961555-0-6	National

		of Temperature Pg.No.102-105			
4	Chapter in Book (Interdisciplinary Perspective of Basic and Engineering Science)	Requisition of mobile for teaching physics Pg.no. 1-5	Rushi Publisher,	ISBN NO. 978-81-96155-6-8	National
5	Chapter in Book (Interdisciplinary Research in Science and Technology)	Acoustical properties of Gelatin-bio-molecule aqueous solution at 308k temperature (pg-155-158)	Rushi Publisher,	ISBN NO. 978-81-970491-2-5	National
6	Chapter in Book (Resent advances in science and technology)	Ultrasonic studies on molecular interaction of urea based aqueous system at 298.15 k through computation of excess parameters (pg.no. 284-290)	Royal Book Publishing,	ISBN NO. 978-81-19821-33-4	National
7	Chapter in Book (National Multidisciplinary conference on History, Culture and Literature, Theories & Practice)	Consequences of Science Technology on Human Life Pg.no. 227-232	Ayush Publisher, Chh. Sambhaji Nagar,	ISBN NO. 978-81-965763-3-2	National
8	Chapter in Book (National Multidisciplinary conference on History, Culture and Literature, Theories & Practice)	Cultural significance of Tarabai Shinde's 'Comparison of Men and Women' Pg.no.61-64	Ayush Publisher, Chh. Sambhaji Nagar,	ISBN NO. 978-81-965763-3-2	National

Development of e-Content:

Sr. No	Name of e-Content Developed	Specify ICTs resources web link:
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Research Guidance:

Sr. No	Degree	Name of Candidate Enrolled	Date of Registration	Thesis submitted Date	Degree awarded dates
1	Ph.D.	Shakti Narayan Bajaj	Dec 2015	July 2021	02/02/2023
2	Ph.D.	Jagruti S. bansode	March 2022	--	Persuing Ph. D.
3	Ph.D.	Manisha R Thokare	March 2022	--	Persuing Ph. D.
4	Ph.D.	Humbad	March 2022	--	Persuing Ph. D.

Research Projects Completed/ On-going:

Sr.No	Title of Project	Sponsored agency	Date of Sanction	Date of Completion	Grant Received (Rs.)
1	Synthesis and Ultrasonic Investigations of Oxide Nanofluids	Dr. Babasaheb Ambedkar Marathwada University	28-01-2019	Project completed on & submitted to Dr. B.A.M.U. on 28 Feb. 2020	35000/-

Patents:

Sr. No	Title of Patent	Patent Number	Sponsored agency if any	Date of Award	International / National
1					

Awards/ Fellowship:

Sr.No	Name of Awards/ Fellowship	Date of Received	International/ National	Name of Awardees Academic Body/ Association
1	Bharatratana Dr. A.P.J. Abdul Kalam International Honour Award-2024	17 th March 2024	International	Universal Research Group, Govt. of India, Nanded, M.S.

Research Paper Presentation in Seminars / Conferences/ Symposium: and Resource Person:

Sr. No	Title of Paper/ Presentation	Title of Seminars / Conference	Mode of Presentation (Paper Presentation / Resource Person)	Name of Organizer	Whether International (Abroad)/ International (Within Country)/ National/ State / University Level
1	Thermodynamic properties of proteins & urea in aqueous solutions at different temperature	Physical Sciences Interface With Humanity, 22 nd – 24 th Dec. 2011	Paper Presentation	Sardar Vallabhai National Institute of Technology, Surat. Gujarat	International
2	Personal Response System an Innovative methods in Teaching Physics	National Seminar On “ Innovative Teaching Methods in Physics”	Paper Presentation	Dept. of Physics, Deogiri College, Aurangabad. 30-31, Aug 2013	National
3	Ultrasonic Investigation of CuO Nanoparticles Dispersed in PVA Matrix.	National Conference on “Emerging Trends in Lasers and Advanced Materials	Paper Presentation	Dept. of Physics, Abasaheb Garware College, Pune, (M.S.)	National
4	‘Magnetic Properties of LI-NI-ZN Ferrites Synthesized by Oxalate precursor method’	International Conference on ‘Recent trends and challenges in Science and Technology-(RTCST2014)	Paper Presentation	Dept of Physics, Padmashri Vikhe Patil college of Arts, Science and Commerce, Pravaranaga, Dist- Ahmednagar, MS, India.	International
5	Ultrasonic Study of molecular interactions of Protein aqueous solution at 308.15K”.	National Conference on Material Science-2014	Paper Presentation	Dept.ofPhysics,Mrs. Kesharbai Sonajirao Kshirsagar alias Kaku Arts, Science& Commerce College, Beed, M.S.	National
6	Ultrasonic study of intermolecular association through Hydrogen	National conference on material science and technology(DEC 2014)	Paper Presentation	Department of Physics, Milliya College, Beed.	National

	bonding in binary liquid mix at 308K				
7	Ultrasonic Study of molecular interactions in some biomolecules aqueous solution at 308K”.	International Symposium on Ultrasonics (ISU-2015)	Paper Presentation	Department of Physics, R.T.M. Nagpur University, Nagpur, India.	International
8	[Overlay Studies of Microstrip Ring Resonators using pico-second pulse Time Domain Transmission Technique in Microwave region]	[International Conference on Functional Materials and Microwaves]	Paper Presentation	Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad [MS] (28-30 Dec.2015)	International
9	Ultrasonic Investigations Of Aqueous Solution Of Urea At 313.15k Temperature.	6th International Science Congress. [8th &9th Dec-2016]	Paper Presentation	ISC & Hutatma Rajguru Mahavidyalaya, Rajguru nagar, Pune	International
10	Application Of Nano-Material In Medicine	Innovation In Nano-Materials & Nano-Technology-2017	Paper Presentation	Rajarshi Shahu Arts, Commerce & Science College,Pathri, Aurangabad	National
11	Application Of Nano technology For Detecting Effect Of Pollution	New Emerging Trends In Environment To Control And Prevent Pollution [24,25 March 2017]	Paper Presentation	Dept. Of Chemistry, Pratishthan Mahavidyalaya, Paithan, Aurangabad	National
12	ICT- A Modern Tool for effective teaching-learning process	National Seminar on role of ICT in higher education for quality improvement.	Paper Presentation	IQAC, Mrs. K.S.K alias kaku Arts, Science & Commerce College, Beed.	National

13	Ion-Solvent interaction Studies in aqueous Urea solution by ultrasonic velocity measurements at Temperature 318.15K	National conference on Recent Trends & Development in Material Science-	Paper Presentation	Department of Physics, Indraraj Arts, Commerce & Science College, Sillod, Aurangabad.	National Conference (16 th DEC-2017)
14	Workshop	Maharashtra University Act-2016, 7 th pay & DCPS	Attended	Maulana Azad College, A'bad.	State level (30 th Jun 2017)
15	Workshop	Harassment of women at workplace	Attended	Tarabai Shinde women's studies center, Dr. B.A.M.U. A'bad.	State level (13 th Jan 2018)
16	Acoustic study of officinale zingiber& zinc chloride at vary-ing conc by ultrasonic investigation	National conference on Functional Material synthesis & Characterization techniques (2 nd March 2019)	Paper Presentation	Department of Physics, Vaidyanath college, Parali, Beed, M.S.	National
17	Synthesis & Acoustical characterization of Binary Liquid system at Temperature 313.15K	National conference on Recent Advances in Nanotechnology (5 th March 2019)	Paper Presentation	Department of Physics, Toshniwal Arts, Commerce & Science college, Sengaon, Hingoli,	National
18	Mobile Application for Teaching Physics	Inter-National Seminar on Contemporary Issues in Commerce and Management (15 & 16 Feb 2019)	Paper Presentation	Dept. of Marketing & cost & work Accounting, Ness Wadia college, Pune.	Inter-National
19	Smart Phone Applications for Health Management	Inter-National Seminar on Contemporary Issues in Commerce and Management (15 & 16 Feb 2019)	Paper Presentation	Dept. of Marketing & cost & work Accounting, Ness Wadiacollege, Pune.	Inter-National
20	Estimation of Excess	National conference on	Paper Presentation	Department of Physics,	National

	parameters through Acoustic studies of Urea based aqueous system at 298.15K.	Recent Trends in Material Science & Nanotechnology (17- March 2019)	n	AnandraoDhonde Alias Babaji Mahavidyalaya, Kada, Beed, MS	
21	Synthesis, Characterization and Ultrasonic Studies of Coconut Oil Based Copper Oxide Nanofluid (Held during 3-4 Jan 2020)	National conference on Advanced Functional Materials : Synthesis, Characterization and Application	Poster paper Presentation	P.G. Department of Physics, Arts, Science and Commerce College , Baramati.	National
22	Structural and Elastic properties of $Zn_xFe_{3-x}O_4$ Ferrite Synthesized by Biological Method (Dated: 18 Jan 2020)	National conference on Emerging Trends in Physical Sciences and Chemical Sciences	Poster paper Presentation	Dept. of Physics-Electronics and Dept. of Chem. Shirish Madhukarrao Chaudhari College, Jalgaon.	National
23	Jayakwadi Hydro-Power plant- A Birds Eye view (Dated 1st Feb 2020)	Multidisciplinary National conference on Arts, Sculpture and Architecture in Marathwada	Oral paper Presentation	Dept. of History, Pratishthan Mahavidyalaya , Paithan & Dr. BAMU. Aurangabad.	National
24	Nano science and Nanotechnology : An Emerging Field (on 13 Feb 2020)	National Conference on Recent Advances in Science	Oral paper Presentation	Dept. of Physics, Chem, Maths, Shivaji Arts, Commerce and Science College, Kannad, A'bad	National
25	Study of Excess Acoustic Parameters of Urea Based Aqueous System at 298.15 K (during 06th - 07th June 2020.)	Fifth International Conference on Advances in Materials Science (Online) (ICAMS – 2020)	oral paper Presentation	Dept.of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath – 416 404, Dist – Sangli, M.S., India	International
26	Preparation And Characterization	International Web Conference on	Oral paper Presentation	Dept. of Physics, Vinayak Vidnyan	

	Of Copper Oxide (CuO) Nanoparticles Synthesized via Sol-Gel Method. (20 – 21 Jun 20)	Advanced Material Science & Nanotechnology (NANOMAT-2020)	n	Mahavidyalaya Nandgaon Khandeshwar, Dist. Amravati, M.S. India	International
27	Facile synthesis, structure and infrared properties of CoFe ₂ O ₄ ferrite nanoparticles (CFN) (14-16 Dec 2020)	National Conference on Physics and Chemistry Materials	Paper Presentation	Dept. of Physics Government Holkar Science College, Indore. M.P.	National
28	FACILE SYNTHESIS AND CHARACTERIZATION OF COPPER OXIDE (CuO) NANOPARTICLES VIA SOL-GEL METHOD (16 Oct. 2021)	National Conference “Advanced materials, Technology, Applications & Education”	Oral Paper presentation	Dept. of Physics, Babasaheb College, Junner, Pune.	National
29	The Novel Application of Metal Oxide Nanoparticles in Nanotechnology (Held during 24-25 Jun 2022)	International conference on New Horizons in Materials Science and Nanotechnology	Poster paper Presentation	Yeshwantrao Chavan College of Arts, Commerce and Science, Sillod, Aurangabad	International
30	Synthesis and Characterization of Zinc Oxide Nanoparticles Green Synthesis Approach: A Review. (Held on 14 & 15 July 2022)	International Conference on changing perspective in Environment, Management, Humanities, Sciences and Technology	Oral Paper Presentation	Lalbahadur Shastri Sr. College, Partur, Jalna. Arts, Commerce College, Sonai, & Yuvaraja's College, Mysuru, Karanataka.	International
31	"Synthesis and Characterization of Copper Oxide (CuO) Nanoparticles via Sol-Gel	International Conference on “Emerging Trends in Material Science”	Oral paper Presentation	Department of Physics & Chemistry in association with IQAC, D. P. Bhosale College, Koregaon, District- Satara,	International

	Method" (Held during 9-10 Nov 2022)				
32	“ A BIRD EYE ON NANO BIOTECHNOLOGY” (Held during 23-24 March 2023)	International Conference on “Material Science and Nanotechnology for sustainable Application”	Oral paper Presentation	Department of Basic and Applied Sciences, MGM University, Chh. Sambhajinagar.	International
33	“An Empowerment of women through vocational Education- A Review.” Held during 20 and 21th Feb 2023	National Seminar on “Self Reliant India through Vocational Education”	Oral paper Presentation	Dept. of English Dr. Sow. Indirabai Bhaskarrao Pathak Mahila Kala Mahavidyalay, Chh. Sambhajinagar.	National
34	"An Empirical Study on NEP 2020: A Bird Eye view" (Held on 19 Oct 2023)	National Seminar on “National Education Policy 2020: Issues and Challenges”	Oral paper Presentation	Ekta Shikshan Prasarak Mandal’s College of Arts, Bidkin.	National
35	“Facile Fusion and Characterization of Some Metal Oxide Nanoparticles Via Sol-Gel Method.” (Held during 28-30 Oct. 2023)	International E-Conference on “Interdisciplinary Perspective of Basic and Engineering Science (IECIPBES-2023)”	Oral paper Presentation	BGPS’s Hi-Tech Institute of Technology, Srinath College of Arts, Commerce, and Science and Hi-Tech College of Management and Computer Science, Waluj MIDC, Chh. Sambhajinagar	International
36	“Electrical Parameters of Soil with Organic Matter at J Band” (Held during 28-30 Oct. 2023)	International E-Conference on “Interdisciplinary Perspective of Basic and Engineering Science (IECIPBES-2023)”	Oral paper Presentation	BGPS’s Hi-Tech Institute of Technology, Srinath College of Arts, Commerce, and Science and Hi-Tech College of Management and Computer Science, Waluj MIDC, Chh. Sambhajinagar	International

37	A usage of nanotechnology in Renewable Energy: A Bird Eye-Review	International Conference on Climate Change: Contemporary Challenges with Local to Global Perspectives	Oral paper Presentation	Dhanwate National College, Nagpur	International
38	Tailoring and Characterization of Copper Oxide Nanoparticles by Sol-Gel Route	National conference on Material Science and Chemistry (4 th and 5 th Oct 2024)	Oral paper Presentation	Department of Chemistry and IQAC, Yogeshwari Mahavidyalaya, Ambajogai, Beed	National
39	Fabrication and Characterization of Some metal Oxide Nanoparticles using Sol-Gel Method (www.ijrst.com)	National Conference on Emerging Trends in Physics and Mathematics. 5 th Sep 2024	Oral paper Presentation	Department of Physics & Maths, Anaandrao Dhonde Mahavidyalaya, Kada, Beed.	National
40	To investigate the sintering influence on fabrication of lanthanum oxide nanoparticles via sol-gel tactics	National conference on Modern Prospective in Physical and chemical Sciences” 28 th Dec 2024.	Oral paper Presentation	TVES’S Dhanji Nana Mahavidyalaya, Faizpur and K.B.C. North M.S. University, Jalgaon.	National
41	Viscosity and Density Characterization of 1-((4-Methoxy-3, 5-Dimethylpyridin-2-Yl) Methyl)-3-Methyl Thiourea in EthanolWater Mixture	National Conference on Development Trends and Techniques in Chemical and Material Sciences (10 th Jan 2025)	Oral paper Presentation	Jagdamba Mahavidyalaya, Achalpur city	National
42	Elastic and Structural Characterstics of copper ferrite nanoparticles produced using a biological process	International conference on HARMONY OF WISDOM 11 th Jan 2025	Poster paper Presentation	Department of Physics, JES College, Jalna, M.S.	International

Invited Lectures:					
Sr. No	Title of Presentation	Date of Presentation	Name of Organizer	Whether International (Abroad)/ International (Within Country)/ National/ State / University Level	
1	Robotics and its applications	(10 th Jan 2019)	Marathwada Institute of Technology, CIDCO, Aurangabad	National Workshop	

UNDERTAKING

I **Dr. Sangita Uttareshwar Shinde** undertake that the information provided is correct as per records submitted by me to College / Institute / university and / or documents enclosed along with the duly filled PBAS Performa.

Place :Paithan

Date : 14th Feb 2025



Signature