



Faculty Profile

Dr. Pallavi Baswaraj Nalle

M Sc, B Ed, Ph D

Assistant Professor [PHYSICS]

**Shri Shivaji Science & Arts College, Chikhli,
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ACADEMIC QUALIFICATION DETAILS

Examination Passed	College/ Institute	Board/ University	Subject/ Specialization	Year of Passing	Division/ Grade
Ph D	Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Ultrasonic Studies on Behaviour of Molecular Interaction on Some Liquid Mixtures	09 February 2017	
M Sc	Deogiri College, Aurangabad.	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	Physics	2009	First Class
B Ed	Netaji Subhash Chandra Boss, College of Education, Kingaon, Dist. Latur.	Swami Ramanand Tirth Marathwada University, Nanded.	Science	2008	Second Class
B Sc	Shri. Mahatma Basweshwer Mahavidyalaya, Latur.	Swami Ramanand Tirth Marathwada University, Nanded.	Physics, Electronics, Computer Science	2004	First Class
H S C	Shri. Mahatma Basweshwer Mahavidyalaya, Latur.	Maharashtra State Board	English, Pali, Mathematics, Physics, Chemistry, Biology	2001	
S S C	Shri. Deshikendra High School, Latur.	Maharashtra State Board	Marathi, Sanskrit, English, Mathematics, Science, Social Sciences	1999	Second Class

Google Scholar Id: - [DeByQEUA](https://scholar.google.com/citations?hl=en&user=DeByQEUA)

Research Gate Id:- <https://www.researchgate.net/profile/Pallavi-Nalle>

ORCID Id:- [0000-0002-7745-7231](https://orcid.org/0000-0002-7745-7231)

Scopus Id:- 57218541151

Researcher ID:- AAR-4138-2020

Best Practice: Core study material-A Lerner Centric Approach.

Teaching Experience: - 6 years (Permanent)

Research Experience: - 13 years

Ph. D. Thesis Title: - "ULTRASONIC STUDIES ON BEHAVIOUR OF MOLECULA INTERACTION ON SOME LIQUID MIXTURE"

Ph. D. Supervisor: - Dr. R. G. Dorik

Area of Research: - Material Science, Ultrasonic Investigation of Liquid Mixture, Nanomaterial, Nanofluid.

Ph. D. / M. Phil. Guidance	NIL	
Paper Published	32	
Paper Presented	International (10)	National (09)
Book Published	NIL	
Articles Published	05	
Invited Talk & Guest Lectures	05 (Invited Talk) 01 (Resource Person)	
Conference/Workshop Attended	International (12)	National (17)
Research Project Completed	NIL	
Major Research Project	NIL	
Position Held	Assistant Professor	
Awards/Scholarships	1) Best Poster Award 2) Paper Presentation Award (II)	

RESEARCH PROFILE

1) Research Papers Published in Journals (28):

Sr. No.	Title	Name of Authors as mentioned in paper	Journal, Vol. No. Page No. Year	Impact Factor if any	ISSN/ISBN No.
01	Studies on Molecular Interaction in Enriched Antioxidant <i>Piper Nigrum</i> with NaCl through Ultrasonic Interferometer	Pallavi B. Nalle , P. S. Aghav, V. D. Murumkar, R. G. Dorik, K. M. Jadhav	I. J. Advanced Research in Basic and Applied Sciences, Vol. 2(1), July 2015. pp. 29-31 2015-16		ISSN No. 2394-4072

02	Ultrasonic Studies on Some Bio molecular Aqueous Solution at 303.15 K	Sangita Shinde, Pallavi B. Nalle , J. B. Mote, N. D. Chaudhari, B. R. Sharma, B. R. Shinde	I. J. Advanced Research in Basic and Applied Sciences Vol. 2(1), July 2015. pp. 53-55 2015-16	ISSN No. 2394-4072
03	Effect of Drug <i>Piper Nigrum</i> on Physicochemical Properties of Zinc Chloride at Varying Concentration and Temperature Investigated Through Ultrasonic Tool	Pallavi Nalle , Shankar D. Birajdar, B. R. Shinde, R. G. Dorik, K. M. Jadhav	Cogent Chemistry (2016), 2 July 2016, Taylor and Francis Group doi: http://dx.org/10.1080/23312009.2016.1216721 . pp. 1-15 2016-17	doi: http://dx.org/10.1080/23312009.2016.1216721
04	Effect of drug <i>Piper nigrum</i> on magnesium chloride at varying concentration and Temperature through ultrasonic method: A thermoacoustic study	Pallavi B. Nalle , S. S. Deshmukh, R. G. Dorik and K. M. Jadhav	Cogent Physics (2016), 3: 21 Nov 2016, Taylor and Francis Group doi: http://dx.doi.org/10.1080/23311940.2016.1262572 pp. 1-18 2016-17	doi: http://dx.doi.org/10.1080/23311940.2016.1262572
05	Acoustic and Thermodynamic Study of <i>Piper Nigrum</i> and Zinc Chloride at Varying Temperatures by Ultrasonic Technique	Pallavi B. Nalle , B. R. Shinde, R. G. Dorik and K. M. Jadhav	I. J. Advanced Research in Basic and Applied Sciences Vol. 3(1), July 2016 pp. 51-56, 2016-17	ISSN No. 2394-4072
06	Acoustical and Excess Parameters in Binary Liquid Mixture at Temperature 303.15 K	Pallavi B. Nalle , B. R. Shinde, S. U. Shinde, R. G. Dorik and K. M. Jadhav	Journal of Pure and Applied Ultrasonics (Ultrasonic Society of India) Vol. 39 (1) JANUARY- MARCH 2017 pp. 1-7, 2017	ISSN No. 0256-4637
07	Acoustical and Excess Parameter Studies of Piperine with MgCl ₂	Pallavi B. Nalle , R. G. Dorik and K. M. Jadhav	Journal of Pure and Applied Ultrasonics (Ultrasonic Society of India). Vol. 41(2), APRIL-JUNE 2019 pp. 27-35 2018-19	ISSN No. 0256-4637
08	Smartphone Applications for Health Management	Pallavi B. Nalle , Sangita U. Shinde, Kamalakar M. Jadhav	International Seminar on Contemporary Issues in Commerce and Management Vol. 6(1), March 2019 pp. 38-41 2018-19	E-ISSN No. 2348-1269 P-ISSN 2349-5138

09	Mobile Applications for Teaching Physics	Sangita U. Shinde, Pallavi B. Nalle , Kamlakar M. Jadhav	International Seminar on Contemporary Issues in Commerce and Management Vol. 6(1) pp.47-51 March 2019		E-ISSN No. 2348-1269 P-ISSN 2349-5138
10	Ultrasonic investigations of CuO Nanoparticles Dispersed in PVA Matrix	Pallavi B. Nalle , Asha A. Nawpute, Sangeeta Shinde, B. R. Shinde, P. P. Khirade, R. G. Dorik, K. M. Jadhav	Bionano Frontier, Vol. 6 Issue 4 pp. 205-207 Oct 2013		ISSN No. 0974-0678 Online 2320-9593
11	Synthesis, Structural and Ultrasonic Characterization of CuO Nanofluid	Pallavi B. Nalle , Asha Navpute, S. P. Jadhav, B. R. Shinde, S. U. Shinde, K. M. Jadhav	International Journal of Science and Research (IJSR) Jan 2015 pp. 208-210 2015		ISSN No. Online 2319-7064
12	Ultrasonic Investigations of Drug <i>Piper Nigrum</i> in Metal Ions at 303.15 K Temperature	Pallavi B. Nalle , C. M. Kale, S. U. Shinde, R. G. Dorik	Bionano Frontier Vol. 8(3) pp. 168-170 December 2015.		ISSN No. 0974-0678, online 2320-9593
13	Acoustic Study of <i>Officinale Zingiber</i> and Zinc Chloride at Varying Concentration by Ultrasonic Investigation	Pallavi B. Nalle , Sangita U. Shinde and K. M. Jadhav	International Journal of Advance and Innovative Research Vol.6, Issue 1 (XIX) Jan-March 2019 Part -2 pp. 68-71, 2019.		ISSN No. 2394-7780
14	Ultrasonic Investigation of Herbal Extract <i>Officinale Zingiber</i> at Temperature 308.15K	Pallavi B. Nalle , Sangita U. Shinde and K.M. Jadhav	Review of Research, Vol 1, Issue 1, pp. 51-55. March 2019.		ISSN No. 2249-894x
15	Synthesis and Acoustical Characterization of Binary Liquid System at Temperature 313.15 K	Sangita Shinde, Pallavi Nalle , B. R. Sharma, K. M. Jadhav	Review of Research Vol1, Issue 1, March 2019, pp. 46-50, 2019.		ISSN No. 2249-894x
16	Ultrasonic Investigation of Drug <i>Zingiber officinale</i> with Metal Ions as a Function of Concentration	Pallavi B. Nalle , Sangita U. Shinde, N. B. Thakare, and Prafull P. Padghan	Macromolecular Symposia 392, 2000080, pp. 1-4, 2020	0.68	DOI: 10.1002/masy.20200080
17	Characterisation Techniques for Monuments: An Overview	Pallavi B. Nalle , Sangita Shinde, D. N. Bhoyar, V. B. Huse	Our Heritage Vol-68, Special Issue-11 pp. 331-335, 2020.		ISSN No.: 0474-9030

18	Jayakwadi Hydro-Powerplant- A Birds Eye view	Sangita Shinde, Pallavi Nalle , S. B. Patil, F. B. Quadri, N. D. Chaudhari, B. R. Sharma	Our Heritage Vol-68, Special Issue-11 2020, pp. 528-535,2020.	ISSN No.: 0474- 9030
19	COVID - 19 Pandemic: Wake-up Call of Digital Transformation for Education System	Pallavi B. Nalle , Sangita Shinde, Mangesh Manke, S. S. Kale	B. Aadhar International Peer-Reviewed Indexed Research Journal Issue No, 252 (CCXLIII) 2020 pp. 47-51, 2020	ISSN No.: 2278- 9308
20	Impact of COVID-19 on the Teaching and Learning of Science in Higher Education	Sangita Shinde, Pallavi Nalle , Qudari F. B.	B. Aadhar International Peer-Reviewed Indexed Research Journal Issue No, 252, (CCXLIII)2020 pp. 52-55, 2020	ISSN No.: 2278- 9308
21	Review Article on Impact of COVID-19 Pandemic on Education, Employment, Culture and Human Health in World	S. S. Kale, P. P. Padghan and P. B. Nalle	B. Aadhar International Peer-Reviewed Indexed Research Journal Issue No, 252 (CCXLIII) 2020, pp. 81-83, 2020	ISSN No. 2278- 9308
22	Multiferroic Fe ³⁺ ion doped BaTiO ₃ Perovskite Nanoceramics: Structural, Optical, Electrical and Dielectric Investigations	Dhananjay N. Bhojar, Sandeep B. Somvanshi, P. B. Nalle , V. K. Mande, A. A. Pandit, K.M. Jadhav	Journal of Physics: Conference Series 1644(2020)012058, 2020, pp. 1-12, 2020.	Doi: 10.1088/1742-6596/1644/1/012058
23	Facile Synthesis and Characterization of Copper Oxide (CuO) Nanoparticles via Sol-Gel Method	Sangita Shinde, Pallavi Nalle , P. Kute, Firdos Quadri, N. D. Chaudhari	Journal of the Maharaja Sayajirao University of Baroda, Volume-55, No.22021	ISSN No. 0025- 0422
24	Viscosity, Density and Ultrasonic Study of <i>Officinale Zingiber</i> with ZnCl ₂ at 318.15 K	P. Nalle , S. Shinde and K. Jadhav	Asian Journal of Organic & Medicinal Chemistry Vol. 7 No. 2 April-June, Special Issue CRNSS 2022	ISSN Online: 2456-8937
25	An Overview of Nanoscience and its Applications	P. B. Nalle , S. U. Shinde, K. M. Jadhav	International Journal of Scientific Research in Science and Technology Vol. No. 11, pp. 385-390, 2024	Online ISSN: 2395-602X doi : https://doi.org/10.32628/IJSRST
26	Fabrication and Characterization of Some metal Oxide Nanoparticles using Sol-Gel Method	Sangita Shinde, Pallavi Nalle , Firdos Quadri, Prabhakar Kute, N. D. Chaudhari	International Journal of Scientific Research in Science and Technology Vol. No. 11, pp. 213-216, 2024.	Online ISSN: 2395-602X doi : https://doi.org/10.32628/IJSRST

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27	Study of Acoustic Parameters for Binary Liquid Mixture Using Ultrasonic Interferometer	Pallavi B. Nalle , S. U. Shinde, K. M. Jadhav	International Journal of Scientific Research in Science and Technology Vol. No. 11, pp. 214-218, 2024.	Online ISSN: 2395-602X doi : https://doi.org/10.32628/IJSRST
28	Tailoring and Characterization of Copper Oxide Nanoparticles by Sol-Gel Route	Sangita Shinde, Pallavi Nalle , N. D. Chaudhari	International Journal of Scientific Research in Science and Technology Vol. No. 11, pp. 64-67, 2024.	Online ISSN: 2395-602X doi : https://doi.org/10.32628/IJSRST

2. Full Papers in Conference Proceedings (04):

Sr. No.	Name of Conference	Level	Title of Paper	Name of Authors as mentioned in paper	Place & Date	ISSN / ISBN No.
01	National Seminar on Innovative Teaching Methods, Deogiri College, Aurangabad, Maharashtra.	National	Personal Response System: An Innovative Method In Teaching Physics	Asha A. Navpute, Pallavi B. Nalle , S. D. Birajdar, P. P. Khirade, Sangeeta Shinde, K. M. Jadhav	Deogiri College, Aurangabad, Maharashtra 30-31 Aug 2013	ISBN 978-81-926750-0-9
02	UGC Sponsored National Conference, Mahatma Gandhi College, Ahamadpur, Dist. Latur, Maharashtra.	National	Antioxidant Activity Extracted Black Pepper Fruit with Metal Through Ultrasonic Investigation	Pallavi B. Nalle , B. R. Shinde, Shinde S. U. Jadhav S. M., Dorik R. G., Jadhav K. M	Mahatma Gandhi College, Ahamadpur, Dist. Latur, Maharashtra, September 2014	
03	103rd Indian Sci. Congress, University of Mysore, Mysuru, Jan 2016	National	Variation of Acoustical Parameters of Herbal Extract <i>Piper Nigrum</i> with Metal Ions at 2 MHz Frequency	Pallavi B. Nalle , S. N. Karajangi, Sangita U. Shinde, B. R. Shinde, V. G. Patil, K. M. Jadhav	University of Mysore, Mysuru. 3-7 January 2016	
04	103rd Indian Sci. Congress, University of Mysore, Mysuru, Jan 2016	National	Synthesis and Morphological Studies of CuO Nanoparticles Obtained by Sol-Gel Method.	B. R. Shinde, N.N. Waghule, S. S. Jadhav, Pallavi B. Nalle , R.G. Vidhate, K. M. Jadhav	University of Mysore, Mysuru. 3-7 January 2016	

3. Papers Presented in Conferences / Seminar / Symposia /Workshop (19):

Sr. No.	Title of Paper	Title of Event	Level	Date	Organizer
01	Ultrasonic investigations of CuO Nano particles Dispersed in PVA Matrix	National Conference on Emerging Trends in Lasers and Advanced Materials	National	28-29 October 2013	Abasaheb Garware College, Pune, Maharashtra
02	Antioxidant Activity Extracted Black Pepper Fruit with Metal Through Ultrasonic Investigation	UGC Sponsored National Conference on Non-Conventional Energy Sources for Rural Development of India	National	5-6 September 2014	Mahatma Gandhi College, Ahamadpur, Dist. Latur, Maharashtra.
03	Synthesis, Structural and Ultrasonic Characterization of CuO Nanofluid	International Symposium on Ultrasonics	Int.	22, 23 & 24 January 2015	Nagpur University, Nagpur, Maharashtra
04	Ultrasonic Investigations of Drug <i>Piper Nigrum</i> in Metal Ions at 303.15 Temperature	International Conference on Functional Materials and Microwaves	Int.	28-30 December 2015	Dr. B. A. M. University, Aurangabad.
05	Variation of Acoustical Parameters of Herbal Extract <i>Piper Nigrum</i> with Metal Ions at 2 MHz Frequency	103 rd Indian Sci. Congress	National	3-7 January 2016	University of Mysore Mysuru.
06	Synthesis and Morphological Studies of CuO Nanoparticles Obtained by Sol-Gel Method	103 rd Indian Sci. Congress	National	3-7 January 2016	University of Mysore Mysuru.
07	Acoustic Study of <i>Officinale Zingiber</i> and Zinc Chloride at Varying Concentration by Ultrasonic Investigation	National Conference on Functional Materials Synthesis and Characterization Techniques	National	02 March 2019	Dept. of Physics, Vaidyanath College, Parli-Vajnath, Dist. Beed, Maharashtra.
08	Synthesis and Acoustical Characterization of Binary Liquid System at Temperature 313.15K	National Conference on Recent Advances in Nanotechnology	National	05 March 2019	Toshniwal Arts, Commerce & Science College, Sengaoon Dist. Hingoli, Maharashtra.

09	Ultrasonic Investigation of Drug Zingiber officinale with Metal Ions as a Function of Concentration	Fourth International Conference on Advances in Materials Science (ICAMS- 2020)	Int.	20-21 January 2020	Raje Ramrao Mahavidyalaya, Jath.
10	Characterisation Techniques for Monuments: Overview	One Day Multidisciplinary National Conf on Arts, Sculpture and Architecture in Marathwada	National	01 February 2020	Pratishthan Mahavidyalaya, Paithan, Dist. Aurangabad.
11	Study of Molecular Interactions in Binary Liquid Mixtures Containing ZnCl ₂	International Web Conference on Science, Engineering & Technology	Int.	15-16 May 2020	Society for Technologically Advanced Materials of India (STAMI)
12	Viscosity, density and ultrasonic study of <i>officinale zingiber</i> with ZnCl ₂ at 318.15 K	International e - Conference 2022 on Current Research in Chemistry and Nano Sciences (CRCNS - 2022)	Int.	18 - 20 January 2022	Department of Chemistry, Loknete Vyanaktrao Hiray Arts, Science and Commerce College, Panchavati, Nashik -3
13	Studies on Molecular Interaction in Enriched Antioxidant <i>Officinale Zingiber</i> with MgCl ₂ through Ultrasonic Interferometer	International Conference on New Horizons in Materials Science & Nanotechnology (ICNHMSN) - 2022	Int.	24 -25 June 2022	Department of Physics, Yeshwantrao Chavan College of Art's, Commerce & Science, Sillod. Dist. Aurangabad.
14	Ultrasonic Studies on Liquid Mixtures of MgCl ₂ with drug <i>Officinale Zingiber</i> at 308.15 K	International E-conference on "Interdisciplinary Perspective of Basic and Engineering Science" (IECIPBES-2023)	Int.	28 th to 30 th October 2023	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 (MS), India.
15	An Overview of Nanoscience and its Applications	One Day National Conference on Emerging Trends in Physics and Mathematics [ETPM-2024]	National	5 th Sept. 2024	Department of Physics & Mathematics, Anand Charitable Sanstha, Ashti's Anandrao Dhonde Alias Babaji Mahavidyalaya, Dist. Beed, Maharashtra, India.

16	Nanotechnology and Its Applications in The Field of Renewable Energy – Aon Climate Change: Review	One Day International Multidisciplinary Conference on Climate Change: Contemporary Challenges with Local to Global Perspectives	Int.	18 th Sept. 2024	Dept. of Geology, Dhanwate National College, Nagpur.
17	Study of Acoustic Parameters for Binary Liquid Mixture Using Ultrasonic Interferometer	Two Days National Conference on Material Science and Chemistry	National	4 th and 5 th Oct. 2024	Department of Chemistry and Internal Quality Assurance Cell, Yogeshwari Mahavidyalaya, Ambajogai. Dist. Beed, Maharashtra, India.
18	Ultrasonic Investigation of Molecular Interaction in Binary Mixtures of MgCl ₂ with Herbal Drug	International Conference on nano-Bio-Info and Cognition for Social Benefit (ICNBICT-2025)	Int.	24 and 25 March 2025	Dept. of Physics, School of basic and Applied Sciences (SBAS) MGM University, Chhatrapati Sambhajnagar.
19	Ultrasonic Investigation of Thermoacoustic Properties of Magnesium Chloride at Different Concentration	International Conference on Pioneering Science and Progress: Nanotechnology for Sustainable Developments (ICPSP: NSD-2025)	Int.	11 to 13 Sept. 2025	School of Nanoscience and Biotechnology, Shivaji University, Kolhapur.

4. Conferences / Seminar / Symposia / Workshop Attended (29):

Sr. No.	Theme	Level	Date	Organizer
01	National Workshop on Nanotechnology and Intellectual Property Right and Patents in Science and Technology from Nanotechnology Perspectives	National	16-17 February 2012	Department of Nanotechnology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
02	Physics of Materials and Photonic Devices	National	16-17 March 2012	Department of Physics, Electronics and Photonics, Rajshri Shahu Mahavidyalaya Latur.
03	UGC Sponsored Two-day National Seminar on Innovative Teaching Methods	National	30-31 August 2013	Department of Physics, Deogiri College, Aurangabad.
04	National Conference on Emerging Trends in LASERS and Advanced Materials	National	28-29 October 2013	Department of Physics, Abasaheb Garware College, Pune, Maharashtra.

05	National Level Conference on Non Conventional Energy Sources for Rural Development of India	National	5 - 6 September 2014	Department of Physics Mahatma Gandhi College, Ahamadpur, Dist. Latur.
06	National Conference on Material Science	National	12-13 December 2014	Department of Physics, Mrs. Kesharbai Sonajirao Sirsagar Allias Kaku Arts, Science & Commerce College, Beed.
07	International Symposium on Ultrasonics (ISU) 2015	Int.	22-24 January 2015	Department of Physics, RTM Nagpur University, Nagpur.
08	International Conference on Functional Materials and Microwaves (ICFMM) 2015	Int.	28-30 December 2015	Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
09	103 rd Indian Science Congress Association	National	3 to 7 January 2016	University of Mysore
10	One Day National Level Seminar on Current Regulatory Scenario and Challenges for Food and Pharmaceutical Industry (NCRTDMS 2017)	National	27 February 2016	Channabasweshwar Pharmacy College, Latur.
11	National Conference on Recent Trends and Development in Material Science 2017	National	16 December 2017	Department of Physics, Indraraj Arts, Commerce and Science College, Sillod Dist. Aurangabad (M. S.) India.
12	Workshop on Solar Photovoltaic Cell: Basics and Its Applications	College	19 August 2017	Department of Physics, Shivchhatrapati College Aurangabad.
13	Two Days State Level Workshop on "E - Content Development"	National	29 - 30 September 2018	Department of Physics, and Knowledge Bridge Ahmadnagar, Viveknand Arts, Sardar Dalipsingh Commerce and Science College, Aurangabad.
14	National Conference on Nanostructured Materials and Nanotechnology	National	01 December 2018	Department of Chemistry and Physics of MSP Mandals Shri Muktanand College, Gangapur, Dist. Aurangabad.
15	National Conference on Functional Material Synthesis and Characterization Techniques (NCFMSCT - 2019)	National	02 March 2019	Department of Physics, Vaidyanath College, Parli Vaijnath, Dist. Beed.
16	National Conference Recent Advances in Nanotechnology (RAN -2019)	National	05 March 2019	Department of Physics, Toshniwal Arts Commerce and Science College, Sengaoon Dist. Hingoli.
17	4 th International Conference on Advances in Materials Science (ICAMS - 2020)	Int.	20-21 January 2020	Post Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath Dist. Sangali.

18	One Day Multidisciplinary National Conference on Arts, Sculpture and Architecture In Marathwada (ASAM - 2020)	National	01 February 2020	Department of History, Pratishthan Mahavidyalaya Paithan Aurangabad.
19	International Web Conference on Science, Engineering & Technology (IWCSET 2020)	Int.	15-16 May 2020	Society for Technologically Advanced Materials of India (STAMI)
20	One Day Online International Conference in Interdisciplinary Subjects on The History of Pandemic like Covid-19 & its Impacts on Socio-Economic & Political Sectors in the World	Int.	20 October 2020	Vasandrao Kale Mahavidyalaya, Dhoki & Akhil Maharashtra Itihas Parishd, Pune.
21	International e - Conference 2022 on Current Research in Chemistry and Nano Sciences (CRCNS - 2022)	Int.	18 - 20 January 2022	Department of Chemistry, Loknete Vyanaktrao Hiray Arts, Science and Commerce College, Panchavati, Nashik - 3
22	International Conference on New Horizons in Materials Science & Nanotechnology (ICNHMSN) - 2022	Int.	24 - 25 June 2022	Department of Physics, Yeshwantrao Chavan College of Art's, Commerce & Science, Sillod. Dist. Aurangabad.
23	International Conference on materials Science and nanotechnology for Sustainable Applications (ICMSNSA- 2023)	Int.	23 to 24 March 2023	University of Department of Basic and Applied Sciences MGM University, Aurangabad, India.
24	International E-conference on "Interdisciplinary Perspective of Basic and Engineering Science" (IECIPBES-2023)	Int.	28 th to 30 th October 2023	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 (MS), India.
25	One Day National Conference on Emerging Trends in Physics and Mathematics (ETPM - 2024)	National	5 th Sept. 2024	Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada Tal. Ashti Dist. Beed Maharashtra 414 202
26	One Day International Multidisciplinary Conference on Climate Change: Contemporary Challenges with Local to Global Perspectives	Int.	18 th Sept. 2024	Dept. of Geology, Dhanwate National College, Nagpur.
27	Two Days National Conference on Material Science and Chemistry 2024	National	4 th and 5 th Oct. 2024	Department of Chemistry and Internal Quality Assurance Cell, Yogeshwari Mahavidyalaya, Ambajogai. Dist. Beed, Maharashtra, India.
28	International Conference on nano-Bio-Info and Cogno technology for Social Benefit (ICNBICT-2025)	Int.	24 and 25 March 2025	Dept. of Physics, School of basic and Applied Sciences (SBAS) MGM University, Chhatrapati Sambhajinagar.

29	International Conference on Pioneering Science and Progress: Nanotechnology for Sustainable Developments (ICPSP: NSD-2025)	Int.	11 to 13 Sept. 2025	School of Nanoscience and Biotechnology, Shivaji University, Kolhapur.
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Invited Lectures & Session Chairmanship (06):

Sr. No.	Title	Academic Session	Event	Level	Date	Organizer
01	Recent Trends in Physics	2021-2022	Workshop	College Level	27 July 2021	Department of Physics, Shivchhatrapati College, Aurangabad.
02	Fundamentals of Ultrasonics and its Research Applications	2021-2022	Guest Lecture Series	College Level	09 Dec. 2021	Department of Physics, Shri. Muktanand College, Gangapur, Dist. Aurangabad.
03	General Electronics	2021-2022	Guest Lecture	College Level	02 June 2022	Department of Physics, Shivchhatrapati College, Aurangabad.
04	LASER & Its Applications	2022-2023	Guest Lecture	College Level	08 Aug. 2022	Department of Physics, Rajashri Shahu Arts, Commerce & Science College, Pathri.
05	Sciences For Sustainable Future	2023-2024	Guest Lecture	College Level	20 January 2024	Raje Sambhaji Bhosale Sainiki School & Jr. College, Aurangabad.
06	NEP-2020 & Vocational Programs under NSQF	2023-2024	National Workshop Resource Person	College Level	23 Feb. 2024	Deogiri College, Chhatrapati Sambhaji Nagar.

Training Courses, Teaching-Learning-Evaluation Technology Programmes, Faculty Development Programmes (06):

Sr. No.	Programme	Duration	Organized By
01	UGC Sponsored Online Faculty Induction Programme (Guru Dakshata)	08/09/2021 to 02/08/2021	HRDC, Dr. Babasaheb Ambedkar Marathwada University Aurangabad.
02	UGC Sponsored Online Refresher Course in Advance Instrumentation (MD) All Disciplines	12/09/2022 to 26/09/2022	HRDC, Dr. Babasaheb Ambedkar Marathwada University Aurangabad.

03	One Week FDP Program HT-HERE-2022 Hands on Training on High End Research Equipment's	21/11/2022 to 26/11/2022	Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgoan, Maharashtra in Collaboration with Maharashtra State Faculty Development Academy (MSFDA), Pune.
04	Online Short-Term Course in Research Methodology (Science)	26/12/2022 to 31/12/2022	UGC, HRDC Dr. Babasaheb Ambedkar Marathwada University Aurangabad.
05	MS-DEED Level 1 Online Workshop on Introduction to Innovative Pedagogies for College Teachers	05/01/2023 to 07/01/2023	Maharashtra State Faculty Development Academy (MSFDA), Pune in collaboration with Indian Institute of Science Education and Research (IISER) Pune.
06	Online Refresher Course Interdisciplinary Approaches in Basic Science (For All Science Faculty)	04/08/2025 to 16/08/2025	Malaviya Mission Teacher Training Centre, Rani Durgawati Vishwavidyalaya, Jabalpur, MP.

Articles/Chapters published in Book (05):

Sr. No.	Title & Page No.	Book Title, Editor & Publisher	ISSN/ISBN No.	Authors	Whether Main Authors
01	Nuclear Energy pp. 33-39	The Science of Energy, Dr. C. M. Kale Dr. Surekha S. Lakkas	ISBN No. 978-81-929628-3-2	Pallavi B. Nalle	Chapter Author
02	Ultrasonic Investigation of <i>Officinale Zingiber</i> with $ZnCl_2$ as a Function of Concentration and Temperature pp. 67-71	Innovative Research in Science and Technology, Dr. C. M. Kale Rushi Publication	ISBN No. 951034-5-4	Pallavi B. Nalle	Chapter Author
03	Intermolecular Study of Liquid Mixture as a Function of Concentration pp. 80-82	Advanced Research in Science and Technology	ISBN No. 978-81-961555-0-6	Pallavi B. Nalle	Chapter Author
04	Nanofluid with Ultrasonic Investigation: An Overview pp. 30-35	Interdisciplinary Perspective of Basic and Engineering Science	ISBN No. 978-81-961555-6-8	Pallavi B. Nalle	Chapter Author
05	Physics and Sustainable Development for Modern Society: An Overview pp. 185-187	Interdisciplinary Research in Science and Technology	ISBN No. 978-81-970491-2-5	Pallavi B. Nalle	Chapter Author

Events Organized (22):

Sr. No.	Events	Level	Funded By	Date	Position
01	Avishkar Competition	University	College	09 January 2020	Member
02	State Level Poster Competition Energy Awareness & Environment Conservation	College	College	12 March 2020	Local Organizing Committee
03	National Webinar Career Opportunities in Physical & Mathematical Science for UG & PG Students	College	College	29 July 2020	Co-coordinator
04	College Level Quiz Competition on Basic Sciences (for UG Students)	College	College	28 February 2021	Co-ordinator
05	Physics Association Fun with Optics	College	College	01 March 2021	Co-ordinator
06	National Level Workshop on Indian Women Empowerment and laws (Women Nurturing Cell & IQAC)	National	College	22 July 2021	Committee Member
07	National Workshop on Use of Virtual Lab in Teaching & Learning	National	College	09 to 10 August 2021	Co-convener
08	Online One Week Certificate Course on Renewable Energy	College	College	15 to 21 September 2021	Member
09	Induction Program for Newly Admitted Students	College	College	25 to 30 October 2021	Technical Support
10	Awareness Program on Energy Audit & Its Importance	College	College	14 January 2022	Co-Convener
11	State Level Quiz Competition on Basic Sciences (for UG Students) on NSD	State	College	26 February 2022	Co-ordinator
12	C. V. RAMAN Lecture Series	College	College	22 to 27 February 2022	Co-ordinator
13	Online One Week Certificate Course on Nanotechnology	College	College	25 to 30 April 2022	Member
14	District Level Model Making Competition	District	Miss. Y. T. Suradkar (Re.Jr. College Teacher)	07 May 2022	Co-ordinator
15	University Level Model Making Competition	University	Miss. Y. T. Suradkar (Re.Jr. College Teacher)	30 Sept. 2023	Member
16	Induction Program for Newly admitted Students	College	College	25 July to 01 Aug. 2023	Member
17	वक्तृत्व स्पर्धा शिक्षण महर्षी डॉ. पंजाबराव उपाख्य भाऊसाहेब देशमुख यांच्या 125 व्या जयंती उत्सवानिमित्त	College	College	24 December 2023	Incharge
18	Sir C. V. RAMAN Lecture Series	College	College	28 Feb. to 04 March 2024	Co-ordinator

19	State Level Conference on National Education Policy 2020 sponsored by PM USHA Grant Component 3.0	State Level	College	19 th Oct. 2024	Member
20	वक्तृत्व स्पर्धा शिक्षण महर्षी डॉ. पजाबराव उपाख्य भाऊसाहेब देशमुख याच्या 126 व्या जयंती उत्सवानिमित्त	College	College	24 December 2024	Incharge
21	State Level Interdisciplinary Conference on Gender Equality and Sensitization sponsored by PM USHA Grant Component 3.0	State Level	College	8 th March 2025	Organizing Member
22	Two Days Workshop on Carrier Counselling and Job Opportunities sponsored by PM USHA Grant Component 3.0	District	College	28 th and 29 th March 2025	Organizing Secretary

Special Achievement:

- 1) Best Poster Award for Paper "Ultrasonic Investigation of Drug *Officinale Zingiber* with Metal Ions as a Function of Concentration" in Fourth International Conference on Advances in Materials Science.

(ICAMS - 2020)

Year : 20 -21 January 2020

Organized By: Post Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath-Dist: Sangli, Maharashtra, India.

- 2) Paper Presentation (II) Award for Paper "Studies on Molecular Interaction in Enriched Antioxidant *Officinale Zingiber* with MgCl₂ through Ultrasonic Interferometer" in Two-day International Conference on New Horizons in Materials Science and Nanotechnology – 2022.

Year: 24-25 June 2022

Organized By: Dept. of Physics, Yeshwantrao Chavan College of Arts, Commerce and Science, Sillod, Aurangabad.

Membership:

- Indian Science Congress Association Life Membership: **L41625**
- NUTA Life Membership: **6114**

Date:

Dr. Pallavi Baswaraj Nalle