

Name: - Dr. Manisha Ashok Dhotre

Personal Details:

Designation	Asst. Professor (Biotech. Division)
Qualification(s)	M.Sc. Biotech., Ph.D., SET, CSIR-UGC NET
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Educational Details:

Sr. No.	Name of Course (UG/PG/Other)	Name of Institute/University	Year
1	Ph. D	Swami Ramanand Marathwada University, Nanded	2021
2	M.Sc. Biotechnology	Swami Ramanand Marathwada University, Nanded	2002
3	B.Sc. (Chemistry, Botany, Microbiology)	Swami Ramanand Marathwada University, Nanded	2000

Member of College Committees

Sr. No.	Name of Committee	Role
1	Academic Council	Member
2	IQAC Committee	Member
3	Member of Board of Studies of Biotechnology	Member
4	Student Success Committee	Member
5	Curriculum Designing and Development Committee	Member
6	Planning and Evaluation Committee	Member
7	Parent Teacher Association Committee	Member
8	Admission Committee	Member
9	Alumini Association Committee	Member
10	Proposal Committee	Member
11	Drafting Committee	Member
12	Equivalence and Credit Transfer Committee	Member
13	NIRF	Member
14	Member of Criteria VII	Member
15	Cultural Association	Member
16	Uniform Committee	Member
17	Coordination Committee	Member
18	Project and Research Cell (PRC)	Member
19	Fund Raising Committee	Member
20	Sports Committee	Member

Member of Professional Committees and other organizations

Sr. No.	Name of Committee	Role
1.	Institutional Ethical Committee (IEC) Vilasrao Deshmukh Government Institute of medical Science (VDGMS), Latur	Biological Scientist
2.	The Latur Sanskruti Foundation	Activist

R&D projects received from different funding agencies indicating title, cost, duration, date of sanction, name of funding agencies:

Sr. No.	Title of Minor / Major Project	Funding Agency	Amount Sanctioned with Date	Status of Project
1.	“Potential uses of Probiotics Isolated from animal sources.”	UGC	9,61,300. /- Date of Sanction: Mar 2009	2009 - 2013 Completed
2.	Improvement of Biogas/Methane generated from municipal Waste	Jan-Adahar Sevabhavi Sanstha, Latur	Rs.65,000	2013-14 Completed

Research Guidance:

No. of Students under Research Guide ship (PG and UG) –

PG Students: 98

Experience Details:

Sr. No.	Particulars	Durations
1.	Assistant Professor at Dept. of Biotechnology, Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)	From 27/12/2004 till date
2.	Assistant Professor at Dept. of Biotechnology, MGM college of Computer science and Biotechnology, Nanded	1.5 years
3.	Research Assistant in the Department of Sugar Chemistry at V.S.I., Manjari (BK), Pune	9 months

Research Publications:

Sr. No.	APA Reference
1	Kulkarni, S., Pathan, I., Dhotre, M. , & Nalle, D. (2026). Phytochemical characterization and biological activities of <i>Pterocarpus santalinus</i> L. heartwood extracts: Pharmacological and cosmeceutical perspectives. <i>Asian Journal of Biotechnology and Bioresource Technology</i> , 12(3), 198–211. https://doi.org/10.9734/ajb2t/2026/v12i3316
2	Kadam, S., Nalle, D. A., & Dhotre, M. A. (2025). Dietary evaluation of <i>Lactobacillus acidophilus</i> strain PR2 as a probiotic on growth, immunity, and water quality in major carp (<i>Catla catla</i>). <i>Asian Journal of Fisheries and Aquatic Research</i> , 27.
3	Kadam, S., Shaikh, F. A., & Dhotre, M. A. (2025). Sustainable biodiesel production from <i>Aphanamixis polystachya</i> (Pithraj) seeds: A promising non-edible feedstock for renewable energy. <i>Journal of Energy Research and Reviews</i> , 17.
4	Dhotre, M. A. , & Kadam, S. (2024). Investigation of potential probiotic bacterium (<i>Bacillus subtilis</i> CCI3) in the formulated diets on immunity, growth performance and nutritional quality of <i>Cyprinus carpio</i> . <i>Asian Journal of Fisheries and Aquatic Research</i> , 26.
5	Kadam, S. D., Shembekar, V. S., & Dhotre, M. A. (2020). Isolation, characterization and application of probiotic isolates from gut region of Indian major carp. <i>Journal of Emerging Technologies and Innovative Research</i> , 7(9), 331–338.
6	Dhotre, M. A. , Shembekar, V. S., & Nalle, D. A. (2019). Studies on <i>Aeromonas</i> infection in Indian major carp viz. <i>Catla</i> (<i>Catla catla</i>), rohu (<i>Labeo rohita</i>) and common carp (<i>Cyprinus carpio</i>). <i>Journal of Emerging Technologies and Innovative Research</i> , 6(6), 417–422.
7	Deshmukh, A. R., Shembekar, V. S., Nalle, D. A., & Dhotre, M. A. (2019). Isolation, identification and biochemical characterization of probiotic bacteria from the gut region of <i>Channa marulius</i> and <i>Mugil cephalus</i> . <i>Journal of Emerging Technologies and Innovative Research</i> , 6(6), 230–238.
8	Kadam, S. D., Dhotre, M. A. , & Shembekar, V. S. (2019). Isolation and characterization of fish pathogens from fish farm of Latur region. <i>AJANTA</i> , 8(1), 92–102.
9	Dhere, D. D., Dhotre, M. A. , & Shembekar, V. S. (2017). Probiotic properties of lactic acid bacteria isolated from animal sources. <i>International Journal of Development Research</i> , 7(6), 13208–13212.
10	Dhotre, M. A. , & Shembekar, V. S. (2015). Investigation of probiotic bacterium PB2 (<i>Lactobacillus plantarum</i>) in the formulated diet on growth performance, nutrition quality and disease resistant in common carp <i>Cyprinus carpio</i> . <i>Bionano Frontier</i> .
11	Dhotre, M. A. , & Shembekar, V. S. (2013). Determination of probiotic properties of lactic acid bacteria from animal sources and its comparison with commercially available probiotic preparations. <i>Golden Research Thoughts</i> , 3(3).
12	Dhotre, M. A. , & Shembekar, V. S. (2013). Microbiological analysis of fresh leafy vegetables. <i>Vision Research Review</i> , 2(5).
13	Dhotre, M. A. , Bansode, P. D., & Shembekar, V. S. (2013). Extraction, biochemical characterization and antimicrobial activity of fish mucus. <i>Indian Streams Research Journal</i> , 2(12).
14	Dhotre, M. A. , Yarte, P. C., & Shembekar, V. S. (2013). Effective use of some medicinal plants as antibacterial and feed additives. <i>Bionano Frontier</i> , 6(1), 164–167.
15	Shembekar, V. S., & Dhotre, M. A. (2009). Isolation studies on pectin degrading microorganism from soil. <i>Journal of Microbial World</i> , 11(2), 123–125.

16	Shembekar, V. S., Dhotre, M. A. , Shaikh, R. S., & Kulkarni, S. S. (2009). Isolation, purification and characterization of silk protein sericin from cocoon, <i>Bombyx mori</i> . <i>Bionano Frontiers</i> , 2, 125–127.
17	Dhotre, M. A. , Lokhande, M. V., Hingane, V. C., Kulkarni, S. S., & Shembekar, V. S. (2009). Studies on physico-chemical characteristics of groundwater of Latur city (Maharashtra State). In <i>Proceedings of the National Conference on Climate Change and Challenges in Biodiversity Conservation</i> . Fergusson College, Pune.

Book Chapters / Chapters in Edited Books

Sr. No.	Name of Author(s)	Title of Chapter / Article	Title of Book	Name of Publisher	ISBN/ISSN
1	Manisha Ashok Dhotre; Sachin Shripadrao Kulkarni	Sustainable Energy and the Circular Economy: Traditional Knowledge, Contemporary Innovation	<i>Science and Technology for Sustainable Future</i>	AkiNik Publications	ISBN: 978-93-48620-01-9
2	Manisha Ashok Dhotre; Ravindra Ade	Tradition and Innovation in Agritech: Ideas Drawn from Historical Methods	<i>Modern Practices in Agricultural Science</i>	AkiNik Publications	ISBN: 978-93-48620-31-6
3	Swati Ganesh Swami; Manisha Ashok Dhotre	Smart Technologies in Sustainable Food Processing: Transforming Waste into Value	<i>Smart Solutions for Modern Food Processing Challenges</i>	Prakash Publications	ISBN: 978-93-6342-603-0
4	Manisha Ashok Dhotre; Swati Swami	Reinventing Packaging Sustainability: From Indigenous Practices to Local and Global Circular Models	<i>Smart Solutions for Modern Food Processing Challenges</i>	Prakash Publications	ISBN: 978-93-6342-603-0
5	Ravindra Ade; Manisha Dhotre; Karuna Komatwar	Nanotechnology in Food Preservation: Applications, Challenges, and Educational Perspectives	<i>Smart Solutions for Modern Food Processing Challenges</i>	Prakash Publications	ISBN: 978-93-6342-603-0
6	Karuna Komatwar; Manisha Dhotre	Digitalization and Automation in Food Industries: Industry 4.0 Technologies, Robotics Applications, Implementation Challenges, and Comprehensive Educational Strategies for Biotechnology and Food Science Curricula	<i>Smart Solutions for Modern Food Processing Challenges</i>	Prakash Publications	ISBN: 978-93-6342-603-0

Guest Lectures, Invited Talks, Resource Person & Paper Presentations

Sr. No.	Topic	Invited Institute / Event	Role
1	Mastering PCR	Dayanand Science College, Latur — National Three-Day Hands-on Training-cum-Workshop on “ Advanced Techniques in Molecular Biology, ” 4–6 March 2026	Resource Person
2	Research Methodology: Methods of Data Analysis	Channa Basweshwar College of Pharmacy, Latur	Resource Person
3	Emerging Trends in Sustainable Agriculture	Shri Pundalik Maharaj Mahavidyalaya, Latur	Resource Person
4	Agarose Gel Electrophoresis	Dayanand Science College, Latur	Resource Person

Other Accomplishments/ Awards:

Sr. No.	Achievement
1	Secured Second Prize for poster presentation on “ Improvement of Fish Health by Using Probiotic Feed: An Immunomodulatory Aspect ” at the 13th Maharashtra State Inter-University Research Convention, Avishkar 2018 , held at Gondwana University, Gadchiroli, Maharashtra, 15–18 January 2019 .
2	Secured First Prize for poster presentation on “ Improvement of Fish Health by Using Probiotic Feed: An Immunomodulatory Aspect ” at the University-Level Research Festival, Avishkar 2018 , held at Late Sow. Kamlati Jamkar Mahavidyalaya, Parbhani, Maharashtra, 27–28 December 2018 .
3	Secured First Prize for poster presentation on “ Improvement of Fish Health by Using Probiotic Feed: An Immunomodulatory Aspect ” at the District-Level Research Festival, Avishkar 2018 , held at COCSIT, Latur, Maharashtra, 19 December 2018 .
4	Secured First Prize for poster presentation on “ Characterization of Mucus Proteins from Fishes Available in Local Market of Latur City ” at the National Symposium on Practices in Sustainable Agriculture, Aquaculture and Animal Husbandry , held at Latur, Maharashtra, 20–21 March 2017 .
5	Secured Consolation Prize for poster presentation on “ Extraction, Biochemical Characterization and Antimicrobial Activity of Fish Mucus ” at the National Conference on Use of Plants and Microbes for Green Biotechnology , held at Latur, Maharashtra, 25–26 November 2016 .
6	Secured First Prize for poster presentation on “ Phytochemical Screening, Antioxidant Property and Antimicrobial Potential of Essential Herbal Plants ” at the National Conference , held at Latur, Maharashtra, 2–3 March 2014 .
7	Secured First Prize for poster presentation on “ Effect of Caramel: A Molasses Colorant on Yeast Growth ” at the National Conference , held at Udgir, Maharashtra, 18–19 January 2013 .
8	Secured First Prize for poster/model presentation on “ Production of Bioelectricity with the Help of Microbial Fuel Cell by Using Various Waste ” at the State-Level Seminar on Exploring

	Horizons in Microbial Technology , held at Rajarshi Shahu College, Latur, Maharashtra, 21 January 2012 .
9	Secured First Prize for poster/model presentation on “ Optimization of Eosin Y Dye-Based Method for Estimation of Collagen: An Alternative New Method for Protein Estimation ” at the VI Maharashtra State Inter-University Research Convention, Avishkar 2011 – Invent-Inculcate-Define , held at Shivaji University, Kolhapur, Maharashtra, 13–15 January 2012 .
10	Secured Second Prize for poster/model presentation on “ Development of Novel Method for Submicrogram Quantities of Collagen Using Spectrophotometer ” at the University-Level Avishkar 2011 Research Festival , held at Shri Shivaji College, Parbhani, Maharashtra, 2–3 January 2012 .
11	Secured First Prize for poster/model presentation on “ Development of Novel Method for Submicrogram Quantities of Collagen Using Spectrophotometer ” at the District-Level Avishkar 2011 Research Festival , held at COCSIT College, Latur, Maharashtra, 5 October 2011 .
12	Secured First Prize for poster presentation on “ Studies on Antimicrobial, Antiobesity, Antidiabetic and Wound-Healing Properties of <i>Withania somnifera</i> and Development of Capsules and Soaps ” at the Research Festival – Avishkar 2010 , held at Manwat and organized by S.R.T.M. University, Nanded, Maharashtra, 7–8 January 2011 .
13	Secured Third Prize for poster presentation on “ Degradation of PAH by Nitrogen-Fixing Microorganisms ” at the National Conference , held at Yeshwant Mahavidyalaya, Nanded, Maharashtra, 23–24 February 2008 .
14	Secured First Consolation Prize for poster presentation on “ Studies on Collection, Biological and Chemical Properties of Vermiwash ” at the National Symposium , held at Modern College of Arts, Science and Commerce, Pune, Maharashtra, 18–20 February 2008 .
15	Secured First Prize for poster presentation on “ Enumeration of Coliform in Hotel Water of Latur City by MPN Method (Maharashtra State): A Case Study ” at the National Conference , held at Shivaji University, Kolhapur, Maharashtra, 16–18 October 2006 .
16	Secured First Prize for poster presentation on “ Effect of Carbendazim on Agronomically Important Microbial Communities of Soil ” at the National Conference , held at Dr. Babasaheb Ambedkar University Sub-Centre, Osmanabad, Maharashtra, 19–21 February 2006 .
17	Secured Fourth Prize for poster/paper presentation on “ Homology Modeling of Neuropeptide Y ” at the Symposium on Biotechnology at the Turn of the New Millennium , held at Anna University, Chennai, Tamil Nadu, 2–3 February 2002 .

FDP/Refresher/Orientation Attended

I] Refresher/ Orientation Program Attended

Name of the Teacher	Orientation Course (Dates)	Organizing Institute/University
Dr. Manisha Dhotre	Two Weeks Faculty Developing Program on “Online Concept in Developing MOOCs” (2 July to 17 July 2020)	Ramanujan College, University of Delhi, Sponsored by MHRD, PMMMNMTT

II. Faculty Development Programmes (FDPs), Short-Term Courses & Training Programmes

Sr. No.	Name of the Teacher	FDP / STC / Training Programme & Dates	Organizing Institute / University
1	Dr. Manisha Dhotre	UGC–Guru Dakshata (Faculty Induction Programme–FIP) under the Malaviya Mission–Teacher Training Programme (MM-TTP) of UGC, Ministry of Education, Government of India; 2–28 February 2026; Grade A	JNV University, Jodhpur, Rajasthan
2	Dr. Manisha Dhotre	FDP on “ NEP-2020: Orientation & Sensitization ” under MM-TTP, UGC, Ministry of Education, Government of India; 10–18 December 2025; A+ Grade, 2 Credits	UGC-MMTTC, JNV University, Jodhpur, Rajasthan
3	Dr. Manisha Dhotre	Two-Day Workshop on “ Techniques in Molecular Biology ”; 28–29 December 2023	HiMedia Laboratories Pvt. Ltd.
4	Dr. Manisha Dhotre	One-Day IP Awareness/Training Programme under the National Intellectual Property Awareness Mission (NIPAM) ; 8 June 2022	Intellectual Property Office, India
5	Dr. Manisha Dhotre	National One-Week FDP on “ ICT Tools for Effective Teaching and Learning ”; 23–28 May 2022	Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur
6	Dr. Manisha Dhotre	One-Day Faculty Training Programme on “ Preparation of Research Manuscript: Basics, Ethics & Requisites–2022 ”; 17 February 2022	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
7	Dr. Manisha Dhotre	One-Week AICTE Training and Learning (ATAL) Academy FDP on “ Emerging Challenges in Cyber Security ”; 18–22 October 2021	Govind Ballabh Pant Engineering College
8	Dr. Manisha Dhotre	Three-Day National Online FDP on “ ICT Tools for Effective Teaching Learning ”; 8–10 June 2021	IQAC, Kamla Nehru Mahavidyalaya, Nagpur
9	Dr. Manisha Dhotre	National-Level One-Week FDP on “ Research Methodology ”; 26 April–1 May 2021	Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur
10	Dr. Manisha Dhotre	One-Week Faculty–Student Development Programme on “ Education and Development ”; 8–13 March 2021	Department of Hindi, Vinayakrao Patil Mahavidyalaya, Vaijapur, under UGC STRIDE Component-I

11	Dr. Manisha Dhotre	One-Week Online FDP on “ Nanoscience and Nanotechnology—Current Perspectives ”; 27 July–1 August 2020	Department of Physics & Department of Mechanical Engineering, G. H. Raisoni College of Engineering, Nagpur, in association with Institution of Engineers (India), Nagpur Local Centre
12	Dr. Manisha Dhotre	One-Week FDP on “ Modern Teaching, Evaluation and Research Methods ”; 2–7 June 2020	Department of Hindi, Vinayakrao Patil Mahavidyalaya, Vaijapur, under UGC STRIDE Component-I
13	Dr. Manisha Dhotre	Two-Day Faculty Development Programme on “ Online Teaching & E-content ”; 3–4 June 2020	IIDE
14	Dr. Manisha Dhotre	One-Day Online FDP on “ Examinations in Wake of COVID-19 ”; 8 May 2020	Department of Commerce–Shift II, Patrician College, Chennai
15	Dr. Manisha Dhotre	One-Week National Online FDP on “ ICT Tools for Effective Teaching Learning ”; 27 April–2 May 2020	School of Mathematical Sciences, SRTMU, Nanded
16	Dr. Manisha Dhotre	One-Week Scilab Training Programme; 1–7 May 2020	Spoken Tutorial Project, IIT Bombay; hosted at Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

III. Capacity Building Programmes, Conferences, Research Presentations & Other Academic Activities

Sr. No.	Name of the Teacher	Programme / Activity & Date	Organizing Institute / University
1	Dr. Manisha Dhotre	One-Day Conference on “ National Education Policy ”; 26 February 2026	Maharashtra State Faculty Development Academy
2	Dr. Manisha Dhotre	Pariksha Karmayogi: Capacity-Building Programme for Exam Officials ; 17 June 2026	National Testing Agency (NTA)
3	Dr. Manisha Dhotre	Completed 60-Minute Certificate Course on AI Master Class	Maharashtra Knowledge Corporation Limited (MKCL)
4	Dr. Manisha Dhotre	Presented a research paper at the International Conference on Advances in Life Sciences for Sustainable Development (ICALSSD–2026) ; 13–14 March 2026	Department of Botany, Biotechnology and Microbiology, Rajarshi Shahu Mahavidyalaya, Latur
5	Dr. Manisha Dhotre	Completed “ AI for All ” Programme – AI Aware Stage ; 13 February 2026	Intel, Government of India, Digital India & CBSE
6	Dr. Manisha Dhotre	Presented research paper titled “ Nanotechnology in Food Preservation: Applications, Challenges and Educational Perspective ” at PM-USHA Sponsored One-	Department of Zoology & Fishery Science and Biotechnology, Rajarshi Shahu Mahavidyalaya, Latur

		Day National Seminar on “ Smart Solution for Modern Food Processing Challenges (NSSMFPC-2025) ”; 30 December 2025	
7	Dr. Manisha Dhotre	One-Day Workshop on “ Learning Management System (LMS) ”; 26 December 2025	Department of Information Technology, Rajarshi Shahu Mahavidyalaya, Latur (Autonomous), in collaboration with PM-Usha Scheme
8	Dr. Manisha Dhotre	Ten-Day Research Methodology Course–2025 (RMC-2025) ; 24 November–4 December 2025	Department of Marathi, Rajarshi Shahu Mahavidyalaya, Latur
9	Dr. Manisha Dhotre	Participated in the International Conference on “ Sustainable Development and Environmental Conservation ”; 25–27 May 2025	Department of Environmental Sciences, Maharaja Ganga Singh University, Bikaner, Rajasthan
10	Dr. Manisha Dhotre	Online Talk Session on “ Environmental Microbiology ”; 16 February 2025	Microbiologists Society, India
11	Dr. Manisha Dhotre	“ Manasrang Year 2, Phase 1 ”; 25–26 July 2023	Maharashtra State Faculty Development Academy (MSFDA), Pune, in collaboration with Parivartan Trust, Satara

Other Professional Achievements, Certifications & Mentorship

Sr. No.	Achievement / Recognition
1	Research Project Mentor: Served as mentor for the research project titled “ Ecobloom: Micronutrient Chelated Organic Multipurpose Products, ” presented by Ms. Garad Pooja Rajendra in the Agriculture and Animal Husbandry (UG Level) category at the 18th Maharashtra State Inter-University Research Convention, Aavishkar 2025–26 , held at Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra, 28–31 January 2026 .
2	Professional Certification: Awarded the “ Certified Entrepreneurship Educator ” certification by the Wadhwani Foundation on 8 May 2025.
3	Research Project Mentor: Served as mentor for the research project titled “ Eco-friendly Thermocol Production from Agricultural Waste, ” presented by Mr. Saksham Gopiraj Shinde in the Agriculture and Animal Husbandry (UG Level) category at the 17th Maharashtra State Inter-University Research Convention, Aavishkar 2024–25 , held at Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra, 12–15 January 2025 .
4	Research Project Mentor: Served as mentor for the research project titled “ Production of Biodiesel and Medicinal Products from <i>Aphanamixis polystachya</i> (Pithraj), ” presented by Mr. Sheikh Fardeen Asif in the Pure Sciences (UG Level) category at the 16th Maharashtra State Inter-University Research Convention, Aavishkar 2023–24 , hosted by Maharashtra University of Health Sciences, Nashik, Maharashtra, 12–15 January 2024 . The project secured Third Prize .
5	Mentorship Recognition: Appreciated for exceptional mentorship and unwavering support in guiding and nurturing students during the Scientific Article Writing Competition organized by the Department of Biotechnology, Dayanand Science College, Latur .

Skills

Sr. No.	Skill Area	Technical Skills / Expertise
1	Biophysical Techniques, Biochemistry & Enzymology	Electrophoresis – Agarose Gel Electrophoresis, Native-PAGE, SDS-PAGE; Chromatography – Ion-Exchange, Gel-Permeation, HPTLC; Ultracentrifugation; Spectroscopy; Fluorimetry; Biochemical and enzymological techniques
2	Molecular Biology & Immunology	Polymerase Chain Reaction (PCR); DNA Ligation; Restriction Digestion; Plasmid Preparation/Isolation; Transformation; Conjugation; Phage Titration; Enzyme Immobilization; Blotting Techniques – Southern, Western and Northern Blotting
3	Computer & Digital Skills	C Programming; MS Word; MS Excel; MS PowerPoint; Internet Browsing and Online Research; PageMaker; Digital Documentation and Presentation