

PRIYANKA VIDHYADHAR KANDEPATIL

Assistant Professor (Microbiology)

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Languages Known: English, Hindi, Marathi **Nationality:** Indian

PROFESSIONAL SUMMARY

Dedicated, passionate, and newly qualified Assistant Professor in Microbiology. Proven academic excellence with clearances in both **GATE 2025** and **M-SET 2025**. Deeply committed to fostering an innovative, engaging, and collaborative learning environment for students while actively contributing to cutting-edge research in microbial biotechnology, environmental sustainability, and agricultural ecosystems.

CORE QUALIFICATIONS & ACHIEVEMENTS

- GATE 2025 Qualified:** Life Sciences (Conducted by IIT Roorkee)
- M-SET 2025 Qualified:** State Eligibility Test for Assistant Professor (Conducted by Savitribai Phule Pune University)

EDUCATION

Master of Science (M.Sc.) in Microbiology (2024)
Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Bachelor of Science (B.Sc.) in Microbiology (2022)
Vidya Pratishthan's Arts, Science and Commerce College, Baramati

Higher Secondary Certificate (12th Standard) (2019)
Maharashtra State Board of Secondary and Higher Secondary Education

Secondary School Certificate (10th Standard) (2017)
Maharashtra State Board of Secondary and Higher Secondary Education

TECHNICAL & INTERPERSONAL SKILLS

Technical & Core Competencies

- Instrument Handling:** HPLC, FTIR Spectroscopy, UV-Vis Spectrophotometer, Drug Dissolution Test Apparatus
- Core Areas:** Curriculum Planning & Delivery, Academic Research Methodology, Advanced Academic Writing

Soft Skills & Leadership

- Effective Multitasking
- Academic Team Leadership
- Time Management
- Professional & Clear Communication

RESEARCH PUBLICATIONS (PEER-REVIEWED JOURNALS)

SR.	YEAR	AUTHORS	TITLE OF RESEARCH PAPER	JOURNAL / PUBLICATION DETAILS
1	2026	Kande Patil, P. and Sadiya Rasul, P.	From Dairy Waste to Green Biocatalysis: Industrial Applications of <i>Aspergillus niger</i> Extracellular Protease in Eco-Friendly Dehairing, Detergent Synergy, and Peptide Synthesis	<i>International Journal for Multidisciplinary Research (IJFMR)</i> , 8(3), pp. 1-11
2	2026	Patil, P.K. and Dapke, S.	Isolation, Characterization and Antimicrobial Evaluation of Melanin Produced by <i>Streptomyces thermocarboxydus</i> (RSMLAC01)	<i>International Journal of Research in Academic World</i> , 5(5), pp. 17-22
3	2026	Patil, P.K. and Samudre, K.	From Waste to Wellness: Recovering Potent Antioxidants from Residues using Microbial Cellulase	<i>International Journal of Research and Analytical Reviews</i> , 13(2), pp. 368-376
4	2026	Patil, P.K., Shaikh Hussain Fatema Md Ali, and Shaikh Bushra Tajoddin	Bio-Refining Fruit Residues: Dual Recovery of Industrial Pectinase and Antioxidant Carotenoids from <i>Aspergillus niger</i> and Papaya Waste	<i>International Journal of Research in Academic World</i> , 5(5), pp. 13-16
5	2026	Patil, P.K. and Shinde, S.	Advanced Bio-Material Management: Leveraging Agro-Industrial Waste for Sustainable Dextran Production through Optimized <i>Leuconostoc mesenteroides</i> Bioprocessing	<i>International Journal of Innovative Research in Technology</i> , 12(12), pp. 8375-8382
6	2026	Patil, P.K. and Vedpathak, D.	Valorisation of Tomato Processing Waste for Enhanced Lycopene Recovery Using Fungal Pectinase	<i>South Asian Journal of Research in Microbiology</i> , 20(4), pp. 25-34

BOOK CHAPTERS

SR.	AUTHORS	CHAPTER TITLE	BOOK TITLE / EDITOR DETAILS	PUBLISHER, YEAR & ISBN
1	Kande Patil, P. and Changlerkar, S.	Carbon Sequestration and Climate Mitigation Strategies: A Path Towards Global Net-Zero Emissions	<i>Biodiversity, Ecology and Environmental Sustainability: From Research to Practice</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-03-0
2	Kande Patil, P. and Nalle, D.A.	Sustainable agriculture: soil dynamics, microbial interactions, and biotechnological innovations for food security	<i>Sustainable Agriculture: Climate Resilience, Technology and Food Security</i>	Bhumi Publishing, 2026 ISBN: 978-93-47587-67-2

SR.	AUTHORS	CHAPTER TITLE	BOOK TITLE / EDITOR DETAILS	PUBLISHER, YEAR & ISBN
3	Patil, P.K.	Microbial Diversity and Nutrient Transformation in Agricultural Ecosystems	<i>Advances in Sustainable Agriculture and Allied Sciences Volume II</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-43-6
4	Patil, P.K.	Regulatory and Employability Frameworks in Microbiology Education: A Review	<i>Multidisciplinary Research Area in Arts, Science & Commerce</i> (Volume-21)	The Hill Publication, 2026 ISBN: 978-81-999797-0-3
5	Patil, P.K. and Kumari, S.	The Silent Architect: Women's Role in Intra-Household Food Distribution	<i>Multidisciplinary Research Area in Arts, Science & Commerce</i> (Volume-21)	The Hill Publication, 2026 ISBN: 978-81-999797-0-3
6	Patil, P.K. and Gudda, R.	Artificial intelligence and data science in microbiology: A transformative review	<i>Innovations in Computing, AI and Data Science</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-22-1
7	Patil, P. K. and Nalle, D. A.	Microbial engineering matrices: the framework of applied research in microbiology, translating microbial theory into scalable biotechnology	<i>Transformative Trends in Biotechnology, Microbiology and Food Technology</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-23-8
8	Patil, P.K. and Mathpati, A.	Transformative synergies in biotechnology, microbiology, and food technology: engineering next-generation agri-food systems	<i>Transformative Trends in Biotechnology, Microbiology and Food Technology</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-23-8
9	Patil, P.K. and Gutte, J.	Bridging the science-practice gap: Operationalizing ecological research for environmental sustainability	<i>Biodiversity, Ecology and Environmental Sustainability: From Research to Practice</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-03-0
10	Patil, P.K. and Javeriya, S.	Stimuli-responsive polymeric nanocarriers: interdisciplinary interfaces and advanced pharmaceutical delivery paradigms bridging chemical synthesis, biological	<i>Current Research in Chemical, Biological, Healthcare and Data Science</i> (1st ed.)	Bhumi Publishing, 2026 ISBN: 978-93-47587-18-4
11	Patil, P.K. and Nalle, D.A.	Redefining Agricultural Productivity: The Strategic Integration of Biofertilizers and Biopesticides in the Transition Toward Chemical-Free Farming	<i>Agriculture, Rural Development & Agro-Innovation</i> (1st ed.)	Nature Light Publications, 2026 ISBN: 978-93-49938-36-6

SR.	AUTHORS	CHAPTER TITLE	BOOK TITLE / EDITOR DETAILS	PUBLISHER, YEAR & ISBN
12	Patil, P.K.	Nanotechnology-Driven Strategies for Microbial Food Safety: Applications, Mechanisms, and Future Perspectives	<i>Smart Solution for Modern Food Processing Challenges</i>	Prabhakar Publication, 2025 ISBN: 978-93-6342-603-0

PROFESSIONAL CERTIFICATIONS & FACULTY DEVELOPMENT

National Level e-Workshop on "Ethical Challenges of Generative AI in Research Writing"

Organized by: NUCLIFIC EDUCATION Academy, Coimbatore, Tamil Nadu | June 11, 2026 (Ref No: N.EDU/2026/1DW/RW084)

National Level Faculty e-Workshop on "Diversity and Inclusion in Higher Education"

Organized by: A.C.T Academy, Palakkad, Kerala | May 30, 2026 (Ref No: 2026/ACT/DIHE/071)

One Day Conference on "National Education Policy"

Organized by: Maharashtra State Faculty Development Academy at Rajarshi Shahu Mahavidyalaya, Latur | February 26, 2026 (Ref No: 2026/02/05/org/PU/002)

National Level Workshop on Handling of Modern Analytical Instruments

Instruments Handled: UV-Visible Spectrophotometer, Drug Dissolution Test Apparatus, HPLC, and FTIR
Organized by: Rajarshi Shahu Mahavidyalaya (Autonomous), Latur, in collaboration with Reliable's Shree Industrial Training Centre, Jalgaon | January 24-27, 2023

CONFERENCES, WEBINARS & WORKSHOPS ATTENDED

EVENT TITLE	ORGANIZING INSTITUTION	DATE	TYPE
Pioneering Research in Microbiology and Environmental Sciences	Annasaheb Magar Mahavidyalaya, Hadapsar, Pune	Sept 25, 2021	National Webinar
Molecular Biology	Department of Microbiology & Microbiologist Society, India	Sept 7-8, 2021	International e-Conference
International Science Day Online Poster Competition	Microbiologists Society (Jharkhand Chapter) & P.K. Roy Memorial College, Dhanbad	Nov 10, 2021	National Competition
Using Tools to Prevent Plagiarism in Higher Education	K. J. Somaiya College & Turnitin	July 30, 2021	National Webinar
Synthesis of Nanoparticles: Present and Future	Vidhya Pratishthan's ASC College, Baramati	April 18, 2021	International Webinar
Vector Borne Diseases	Ravi S. Naik College, Ponda, Goa	June 28, 2021	International Webinar

EVENT TITLE	ORGANIZING INSTITUTION	DATE	TYPE
An Innovation Challenge for the Youth on COVID-19	D.B.F. Dayanand College of Arts & Science, Solapur	Sept 5, 2021	Webinar
Consumerism and Financial Literacy	Vidhya Pratishthan's ASC College & Consumer Guidance Society of India	Jan 25, 2021	Webinar
Medicinal and Aromatic Plants	Department of Botany, VPASC College, Baramati & SPPU, Pune	Feb 15, 2020	One Day Workshop