



Rayat Shikshan Sanstha's

Yashavantrao Chavan Institute of Science, Satara

Lead College of Karmaveer Bhaurao Patil University, Satara

**Faculty Profile**



❖ **General information**

**Name** : Dr. Avinash Ashok Survase  
**Designation** : Assistant Professor  
**Department** : Microbiology  
**Educational Qualification** : M.Sc., Ph.D., SRF-NET, SET, GATE, M.BA.,  
PGDRD, CFN  
**Date of Appointment** : 10/08/2022  
**Teaching Experience** : UG: 1 Year, 7 Month  
PG: 1 Year, 7 Month  
**Research Experience** : 6 Years  
**Research Area** : Nanobiotechnology, Nanobioremediation, Oncology,  
Antimicrobial activity, Antioxidant activity,  
Environmental microbiology, Plant physiology  
**Current Employment Status** : Assistant Professor, Department of Microbiology,  
Yashavantrao Chavan Institute of Science, Lead College  
Karmaveer Bhaurao Patil University, Satara

❖ **Educational Qualification Details (undergraduate onwards):**

Sr. No.	Degree	College/University	Subjects	Year	Class/ Percentage
1	Ph.D.	Shivaji University, Kolhapur	Microbiology	2024	Awarded
2	NET SRF	UGC-CSIR, New Delhi	Life Science	2021	Qualified
3	NET JRF	UGC-CSIR, New Delhi	Life Science	2018	Qualified
4	NET-LS	UGC-CSIR, New Delhi	Life Science	2018	Qualified
5	JRF	SARTHI, Maharashtra Gov.	Microbiology	2018	Qualified
6	SET	MH-SET	Life Science	2019	Qualified
7	GATE	IIT-New Delhi	Life Science	2020	Qualified
8	M.Sc.	SRTMU, Nanded	Microbiology	2016	73.38
9	B.Sc.	KN Bhise college Kurduwadi	Microbiology	2014	69.00
10	M.BA.	YCMOU, Nashik	Finance	2020	72.00
11	PGDRD	IGNOU, New Delhi	Rural development	2021	62.00
12	CFN	IGNOU, New Delhi	Food Nutrition	2022	60.00

❖ **Academic and Administrative Responsibilities**

<b>Sr. No.</b>	<b>Position</b>	<b>Organization</b>	<b>Date/Duration</b>
1	Examiner-Thory and Practical Exam	YCIS, Satara	2012-2024
2	Paper setter	YCIS, Satara	2022-2024
3	Junior Supervisor	YCIS, Satara	2022-2024
4	Organizing Committee Member For State Level Intercollegiate Compititions in Microbiology:Dolphin Group Activity	YCIS, Satara	11 <sup>th</sup> Jan 2020
5	Organizing Committee Member For State Level Intercollegiate Compititions in Microbiology:Dolphin Group Activity	YCIS, Satara	19 <sup>th</sup> May 2022
6	Organizing Committee Member For International Conference on “Emerging Trends in Applied Micribiology and Food Sciences (ETAMFS-2022)	YCIS, Satara	2 <sup>nd</sup> and 3 <sup>rd</sup> Dec, 2022
7	Organizing Committee Member For State Level Intercollegiate Compititions in Microbiology: Microbiofest2023	YCIS, Satara	18 <sup>th</sup> March 2023
8	Organizing Committee Member For State Level Intercollegiate Compititions in Microbiology: Microbiofest2023	YCIS, Satara	18 <sup>th</sup> April 2024

❖ **Awards/Honors/Recognitions/Scholarship:**

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Rank	Year
1	Meritorious Award	YCIS, Satara	Best Teacher and Best Researcher Award	2024
2	Best Researcher Award	International Research Awards on Atomic, Molecular and Optical Physics- Govt. of India	International Award	2024
3	University level Avishkar Research Convention	Shivaji University, Kolhapur	3 <sup>rd</sup>	2022
4	International conference oral presentation	YCIS, Satara	1 <sup>st</sup>	2022
5	Meritorious Performance	YCIS, Satara	NET, SET	2022
6	CSIR SRF NET	UGC New Delhi	154	2021
7	JRF Fellowship	SARTHI Maharashtra Gov.	Awarded	2021
8	CSIR JRF NET	UGC New Delhi	154	2018
9	Meritorious Performance	K N Bhise College Kurduwadi	TY B.Sc. 1 <sup>st</sup>	2014

❖ **Membership to Professional Organizations/Associations:**

Sr. No.	Membership type (Annual/Life/any other)	Organization/Association	Date and year
1	Life Member-L44443	Indian Science Congress- India	04/12/2023

❖ **Details of Research Publications**

**A) Patent**

Sr. No.	Title	Patent No.	Indian/US/ Any other	Granted date
1	Immunity testing kit for kids	379780-001	Indian	17/05/2023
2	Device for identification of Cardiovascular diseases	396302-001	Indian	08/11/2023
3	Biosensor for detecting breast-cancer biomarker	398234-001	Indian	14/12/2023
4	Device for early detection of cancer	402829-001	Indian	16/02/2024

**B) NCBI-Microbial sequences datasets Submission**

Sr. No.	Title	Accession No.	Data base	Year of publication
1	<i>Aspergillus eucalypticola SLF1</i>	MZ158304 (MCC 1869)	28SrRNA sequencing	2021
2	<i>Bacillus cabrialesii RIRD-SK</i>	MZ151886 (MCC 4670)	16SrRNA sequencing	2021
3	<i>Serratia marcescens Red Kaas</i>	SUB14109725 (PP330088)	16SrRNA sequencing	2024

**C) Research papers:**

Sr. No	Title of paper	Journal/proceeding details (Name, volume, page no, year of publication etc.)	ISSN No	Listed in Scopus/Web of Science/ UGC Care	Impact factor (If any)
1	Green synthesis of TiO <sub>2</sub> nanospheres from isolated <i>Aspergillus eucalypticola</i> SLF1 and its multifunctionality in nanobioremediation of C. I. Reactive Blue 194 with antimicrobial and antioxidant activity	Ceramics International (Vol-49, Issue-10, 14964-14980)	0272-8842	ELSEVIER-SCOPUS	SCOPUS Impact factor:5.53
2	<i>Aspergillus eucalypticola</i> SLF1 mediated TiO <sub>2</sub> nanosphere for Methylene Blue dye degradation	Bulletin of Environment, Pharmacology and Life Sciences, Spl Issue (1) (January-2023) 109-116	2277-1808	Web of Science	COSMOS Impact factor:4.032
3	Extraction of Bacterial Pigments and Its Application in Cosmetics	Bulletin of Environment, Pharmacology and Life Sciences, Spl Issue (1) (January-2023) 564-571	2277-1808	Web of Science	COSMOS Impact factor:4.032
4	Green Synthesis of Copper Nanoparticles Using Leaf Extract of <i>Ocimum sanctum</i> and its Antimicrobial	Bulletin of Environment, Pharmacology and Life Sciences, Spl Issue (1) (January-	2277-1808	Web of Science	COSMOS Impact factor:4.032

	Activity	2023) 106-112			
5	Multifunctional Cu <sub>2</sub> SnS <sub>3</sub> Nanoparticles with Enhanced Photocatalytic Dye Degradation and Antibacterial Activity	Materials15 (9)3126, 1-15	1996-1944	SCOPUS	SCOPUS Impact factor:3.8
6	A review on tomato flu in India	Bulletin of Environment, Pharmacology and Life Sciences, 1(Special issue 1), 11-14.	2277-1808	Web of Science	COSMOS Impact factor:4.032
7	Influence of particle size on antibacterial and antifungal strains of titanium dioxide (TiO <sub>2</sub> ) nanoparticles synthesized by silar method.	Bulletin of Environment, Pharmacology and Life Sciences, 1(Special issue 1), 274-282	2277-1808	Web of Science	COSMOS Impact factor:4.032
8	Variants of SARS-CoV-2.	International Journal of Microbial Science, 3(1), 29-32.	2582-967X	Peer reviewed	
9	A review on psoriasis: types, development, mechanism and precautions.	Bulletin of Environment, Pharmacology and Life Sciences, 1(Special issue 1), 87-92.	2277-1808	Web of Science	COSMOS Impact factor:4.032
10	Enhanced Photocatalytic Activity of the Cu <sub>2</sub> SnS <sub>3</sub> + GO Composite for the Degradation of Navy Blue ME2RL Industrial Dye	Coatings 13, 3 (2023): 522.	2079-6412	SCOPUS	SCOPUS Impact factor:3.4
11	Synthesis of novel diethyl (hydroxy (2-morpholinoquinolin-3-yl) methyl) phosphonates as antibacterial agent	Chemistry & Biology Interface 12, no. 3 (2022)-69-86	2249 – 4820	Peer reviewed	
12	Synthesis, antibacterial activity study of new 3-((5-methoxy-1hbenzo[d]imidazole-2-	Heterocyclic Letters Vol. 12, No.3,587-596	2230-9632	UGC	

	ylthio)methyl)-2-chloroquinoline derivatives				
13	Antimicrobial activity of Lantana camara on hospital acquired infectious pathogens”	Bulletin of Environment, Pharmacology and Life Sciences, 1(Special issue 1)	2277-1808	Web of Science	COSMOS Impact factor:4.032
14	Analysis of expression of efflux pump (mexc2) gene in drug resistant <i>Pseudomonas aeruginosa</i> .	YMER, 21(08), 1075-1083	0044-0477	Peer reviewed	
15	Studies on decolorization of melanoidin Pigment distillery spent wash by microorganisms	YMER, 21(09), 86-102	0044-0477	Peer reviewed	
16	Photocatalytic degradation of malachite green using TiO <sub>2</sub> nanosphere synthesized by <i>Aspergillus eucalypticola</i> SLF1 Lonar lake	International Journal of Advance and Applied Research, 4 (12), 69-78	2347-7075	Peer reviewed	
17	Biosynthesis of Copper Nanoparticles Using Aqueous Pisa Plant Leaf Extracts: Antimicrobial Activities and Catalytic Application for Xanthene Synthesis	Chemistry Select, 2023, 8, 202303777, 1-9	2405-8300	Wiley-VCH	SCOPUS Impact factor:2.4
18	Novel microbial synthesis of rGO nanosheets for effective photocatalytic remediation of Acid Blue 113 dye, improved seed germination, antimicrobial and antioxidant applications	Journal of Molecular Structure, 26 Dec, 2023	0022-2860	ELSEVIER-SCOPUS	SCOPUS Impact factor- 3.8
19	Symmetric supercapacitor based on	Journal of Electroanalytical	1572-6657	ELSEVIER-SCOPUS	

	biosynthesized nanosheets reduced graphene oxide (rGO): characterization and electrochemical behavior	Chemistry			SCOPUS Impact factor- 4.5
20	Biotransformation of a Textile Azo dye Acid Yellow 25 by <i>Marinobacter gudaonensis AYAF-130</i>	Journal of Chemical Health Risks	2251-6727	SCOPUS	SCOPUS Impact factor- 0.17
21	<i>Aspergillus Oryzae</i> Mediated $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Nanoparticles for Photocatalytic Remediation of Basic Fuschin Dye and Antimicrobial Activities	Chemistry Select, 2024, 9, 202400088, 1-9	2405-8300	Wiley-VCH	SCOPUS Impact factor:2.4
22	Rapid photocatalytic dye degradation, enhanced antibacterial and antifungal activities of silver stacked zinc oxide garnished on carbon nanotubes	Journal of Nature Scientific Reports	2045-2322	Nature Portfolio	SCOPUS Impact factor:3.8

**D) Paper Presentation in Conference/Seminar/ Symposia:**

Sr. No	Title of paper	Name of the Conference/Seminar/Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/State /Uni etc.)	Organizing institute
1	Extraction of Bacterial Pigments and Its Application in Cosmetics	Emerging Trends in Applied Microbiology and Food Science (ETAMFS)-2022	International	Department of Microbiology and Food Processing & Packaging, Yashavantrao Chavan Institute of Science (Autonomous), Satara (MS), India
2	Photocatalytic degradation of Malachite green using TiO <sub>2</sub> nanosphere synthesized by	International Conference on Nano-Biotechnology (ICNB'23)	International	Department of Biotechnology, Nanoscience & Technology, Yashavantrao Chavan Institute of Science, Satara-

	<i>Aspergillus eucalypticola</i> SLF1 lonar lake			415001
3	Green synthesis of TiO <sub>2</sub> Nps by mycogenic culture mediated route for antimicrobial activities	1 <sup>st</sup> International web conference on Advances in material in science and applied biology (ICAMSAB-22)	International	Ramanandnagar Burli
4	Green synthesis biodiesel from algae as renewable sources of energy	Interdisciplinary approaches in life science (NCIALS-2020)	National	YCIS, Satara
5	Microbially synthesis titanium dioxide for NO <sub>2</sub> gas sensing application	International conference on emerging trends and challenges in electronics and computing (ETEC-2021)	International	YCIS, Satara
6	Bioremediation via mycogenic synthesize TiO <sub>2</sub> Nanoparticles	Sixth International conference on advances in material science (ICAMS-2021)	International	RRM, College Jath
7	TiO <sub>2</sub> nanoparticles synthesis by an isolated fungus	International E-conference on current approaches in life-eciences for sustainable development (ICCALSSD-2021)	International	YCIS, Satara
8	Green synthesis of rGO nanoparticles and its photocatalytic and antimicrobial	International E-Conference on “Sustainable Development in Chemistry & Scientific Applications (SDCSA-2021)	International	SGM, College Karad



	application			
9	TiO <sub>2</sub> nanoparticles synthesis by an isolated fungus	Emerging Trends in Physical Sciences NCETPS-2020	International	Department of Physics, PK Mahavidhyalaya, Ramanandnagar Burli
10	Green synthesis of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> Nps by <i>Aspergillus oryzae</i> culture mediated biogenetic route for photocatalytic and antimicrobial activities	International E-conference in biological science	International	IGMS, JSPM, Pune, India
11	Photocatalytic degradation of methylene blue dye using green TiO <sub>2</sub> nanomaterial	1 <sup>st</sup> International conference on Recent Trends in Physical, Chemical, Biological Nanoscience (ICRT-PCBNano-2022)	International	LBS college, Satara
12	Green synthesis of nanobiofactory for photocatalytic application	International E-conference in biological science	International	IGMS, JSPM, Pune, India
13	Microbial synthesis of nanomaterial for bioremediation of dye	International Conference on New Horizons and Trends in Chemical Sciences (ICNHTCS-2022)	International	RBSM, Nagpur
14	Plant mediated synthesis of TiO <sub>2</sub> nanomaterial for anticancer	International Twitter conference Nanobio 19	International	New college Kolhapur

	activity			
15	Green synthesis of nanomaterial for biological application	International conference on multifunctional and hybrid materials for energy and environment (MHMEE-2020)	International	Department of Physics, YCIS Satara
16	Green synthesis characterization and antimicrobial application of TiO <sub>2</sub> -rGO composite using mycobacterial route	International Conference on “Emerging Trends in Material Science”	International	Department of Physics & Chemistry in association with IQAC, D. P. Bhosale College, Koregaon
17	Green synthesis of TiO <sub>2</sub> nanomaterial for malachite green dye remediation	One day National Conference on Physical, Chemical and Biological Strategies, Tools and Ideas for Promising Future	National	Faculty of Science and IQAC of K N Bhise college Kurduwadi
18	Green synthesis of rGO nanosheets for antimicrobial activity	National Conference on EMERGING TRENDS IN CHEMICAL AND MATERIAL SCIENCES	National	Department of Chemistry SUK, Kolhapur

### **E) Books/Book Chapters**

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Text)
1	Applied Microbiology	International Journal of Microbial Science	JULY- 2024	978-93-93337-88-7	Textbook
2	Vedic Microbiology	International Journal of Microbial Science	JULY- 2024	978-93-93337-80-1	Textbook

### **F) Citation Index**

	Google Scholar	Scopus	Web of Science
Citations	39	39	-
h-index	4	4	-
i10-index	1	1	-

❖ **Participation in Orientation/Refresher/FDP/Short Term/Training Programs:**

Sr. No.	Name of the programme	Organizing institute	Date
1	One week training program on R&D equipment under Atmanirbhar Bharat (STUTI)	SRTMU, Nanded	25 <sup>th</sup> July 2022 to 31 <sup>st</sup> July 2022
2	One week STTP on Recent Trends in Research Methodology	REST Society for Research International (RSRI), Krishnagiri, Tamil Nadu, India	25 <sup>th</sup> May 2020 to 29 <sup>th</sup> May 2020
3	Research Ethics and Plagiarism	IGNOU, Swayam New Delhi	01 <sup>st</sup> January to 31 <sup>st</sup> January 2022
4	Data analysis using SPSS	RIRD, Satara	10 <sup>th</sup> August to 11 <sup>th</sup> August 2022
5	One Week Faculty Development Programme on "Open Source Tools for Research	Ramanand College, University of Delhi	08 <sup>th</sup> June to 14 <sup>th</sup> June 2020
6	FDP on Biomedical Nanotechnology	NPTEL, Swayam	1 <sup>st</sup> Sept to 31 <sup>st</sup> Oct 2020
7	E-Content Development for Teaching and Learning	IQAC and Department of Chemistry, Sadguru Gadage Maharaj College, Karad	20 <sup>th</sup> July 2020 to 25 <sup>th</sup> July 2020
8	One day National level FDP on Restructuring the Educational Scenario through Innovation in Teaching Learning	IQAC Master Soft ERP Solutions Pvt. Ltd Nagpur	11 <sup>th</sup> July 2020
9	One Week Faculty Programme on Academic and Professional Development	Internal Quality Assurance Cell under the aegis of State Project Directorate, RUSA, Maharashtra	19 <sup>th</sup> Oct to 24 <sup>th</sup> Oct 2020
10	One Week Online Training Programme on IPR-Patenting System in India	Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM), Nagpur	6 <sup>th</sup> to 10 <sup>th</sup> of June, 2022

❖ **Participation in Conference/Seminar/Symposia/Workshop/Any other programs:**

Sr. No.	Name of the event	Organizing institute	Level (Intl/Natl/State/Uni/Local etc.)	Date
1	Biofarming Awareness Program	Microbiology Society of India, Department of Microbiology, BAMU,	Local	23 <sup>th</sup> January 2013

		Osmanabad		
2	State level competition	Department of Microbiology, Rajaram College, Kolhapur	State	01 <sup>st</sup> September 2013
3	Program on Recent Trends in Solid Waste Management	Microbiology Society of India, Department of Microbiology, BAMU, Osmanabad	Local	10 <sup>th</sup> January 2014
4	Exploring Microbial Biotechnology	Walchand College, Solapur & Microbiology Society of India	State	12 <sup>th</sup> January 2014
5	Indian Science Congress Conference	University of Mumbai	International	3 <sup>th</sup> -7 <sup>th</sup> January,2015
6	Indian Science Congress Conference	University of Mysuru	International	3 <sup>th</sup> -7 <sup>th</sup> January,2016
7	Bioactive Molecules and their Therapeutic Values: Current Status (BMTVCS-2016)	School of Life Science, SRTMU, Nanded	National	13 <sup>th</sup> -14 <sup>th</sup> March 2016
8	International conference on chemistry, environment and energy (ICCEE-2019)	Department of Chemistry, YCIS Satara	International	16 <sup>th</sup> to 18 <sup>th</sup> Feb. 2019
9	IPR Awareness Programme	IQAC YCIS, Satara	Local	14 <sup>th</sup> March 2020
10	Advanced Functional Nanomaterials and Their Device Applications	Department of Physics and IQAC Krishna Mahavidyalaya, Rethare Bk	International	10 <sup>th</sup> August 2020
11	International conference on advanced materials synthesis, characterization and applications (amsca - 2022)	Department of Physics, SPPU	International	18 <sup>th</sup> to 20 <sup>th</sup> October 2022
12	One Day International Symposium on	Department of Physics, Raje Ramrao	International	13 <sup>th</sup> April 2022

	Advances in Photocatalysis”(Virtual Mode)	Mahavidhyalaya Jath		
13	International Conference on Aquaculture for Rural Development	Department of Zoology, Dadapatil Rajale College, Adhinathnagar	International	07 <sup>th</sup> May 2022

❖ **Resource person in Conference/Seminar/Workshop/Any other programs:**

Sr. No.	Title of the event	Level (Intl/Natl/State/Uni./local etc.)	Organizer	Date
1	Guest lecture- NET/SET Examination Guidance and Opportunities of Research'	Local	KN Bhise college Kurduwadi	15 <sup>th</sup> Feb, 2020
2	Hands on Training on UV-Visible spectrophotometer and FTIR	Local	YCIS, Satara	11 <sup>th</sup> March, 2022
3	Hands on Training workshop on Advanced tools for material synthesis and characterization	Local	YCIS, Satara	26 <sup>th</sup> April, 2023
4	Hands on Training workshop on Advanced tools for Fabrication and characterization of Material	Local	YCIS, Satara	14 <sup>th</sup> June, 2024
5	Guest Lecture on Communication of research article to the Journal	Local	YCIS, Satara	24 <sup>h</sup> June, 2024
6	Resource Person and Hands on training in Research internship for PG student	Local	YCIS, Satara	-25 <sup>th</sup> June-30 <sup>h</sup> June, 2024

I declare that the above information provided is true on my belief.

Date: 28/09/2024

Place: Satara

Signature of Faculty