

## Profile of the Faculty



### 1. General Information:

Name of the Faculty	:	<b>Mr. SATHE GANESH SADASHIV</b>
Name of the Department	:	MICROBIOLOGY
Educational Qualifications	:	<b>M.Sc.(Microbiology),NET,SET,ICAR-NET,GATE,BANRF</b>
Present Position	:	Assistant Professor
Address for Correspondence	:	B-202,Second Floor,Parth Ganesh CHS New Panvel, Taluka-Panvel,District-Raigad-410206
E-mail	:	<a href="mailto:ganeshsathe27ckt@gmail.com">ganeshsathe27ckt@gmail.com</a>
Contact Number	:	9860311161
Specialization	:	Molecular Biology and Microbial Genetics
Total teaching experience	:	14 Years
Courses taught	:	F.Y.Bsc, T.Y.BSc. and M.Sc.
Research experience	:	09 Years
Number of students registered for Ph.D. degree	:	NIL
Number of students awarded Ph.D. degree	:	NIL
Number of students registered for M.SC. dissertation	:	02
Number of students completed M.Sc. dissertation	:	14

### 2. Publication of Research Papers:

UGC listed journals	:	<b>00</b>
Peer reviewed journals	:	<b>01</b>
Non-peer reviewed journals	:	<b>01</b>
Conference proceedings	:	<b>02</b>
Patents (Filed)	:	<b>03</b>

### 3. List of Publication of Research Papers:

1. Published the paper “Isolation, Identification and Characterization of beta Gluconase producing *Aspergillus* and *Penicillium* Species from the garden soil” in UGC sponsored National Level Conference- Environmental Biotechnology organized by Department of Zoology, L.B.S. College, Satara held on 29<sup>th</sup> December 2014.
2. Published the paper “Studies on some non-symbiotic N<sub>2</sub> fixers from the alkaline environment (Lonar Lake, Buldhana)” in the proceeding of National Level Conference on Mangroves Of Kokan Coast ,organized by Department of Zoology ,Gogate-Jogalekar College, Ratnagiri held on 2<sup>nd</sup>-3<sup>rd</sup> February 2015.
3. Published the paper, “Isolation and characterization of Laccase producing bacteria from soil used for the degradation of Malachite Green” in the International Journal of Science and Research (IJSR), Page Numbers-676-682, Volume-09, Issue-12, December 2020.
4. Orally presented and Published the paper, “Isolation and Characterization of Phytase producing *Lactobacillus* species obtained from Idali batter and its use in Soya milk fermentation” in National Seminar on Contemporary Issues in Biosciences” in association with Microbiologist Society of India from 4<sup>th</sup> and 5<sup>th</sup> February 2020 held at C.K.Thakur A.C.S. College, New Panvel (Autonomous).
5. Presented a poster on “Studies on Inulin degrading bacteria from geographically diverse type of soil samples” in the One Day National Level Research Meet in Life Science held at V.E.S.College, Chembur, Mumbai on 18<sup>th</sup> July 2017.
6. Published the paper “Studies on some non-symbiotic N<sub>2</sub> fixers from the alkaline environment (Lonar Lake, Buldhana)” in the proceeding of National Level Conference on Mangroves Of Kokan Coast ,organized by Department of Zoology ,Gogate-Jogalekar College, Ratnagiri held on 2<sup>nd</sup>-3<sup>rd</sup> February 2015.
7. Published the paper, “Isolation and characterization of Laccase producing bacteria from soil used for the Degradation of Malachite Green” in the International Journal of Science and Research (IJSR) in Volume 9, Issue 12, December 2020 with **Science Journal Impact Factor (SJIF) 7.583**

**4. IPR/ Patents: 03**

Sr. No.	Filed	Published	Granted
01	<p><b>“A methods and apparatus syringe pump with holder and seal”</b></p> <p>Type of patent:- Indian  Date of filling:-08<sup>th</sup> January , 2023  Patent authority:-  The Controller of Patents,  The Patents office, Mumbai  Application Number:-202321001608</p>		
02	<p><b>“A transdermal patch of amantadine or its salt for Parkinson’s disease”</b></p> <p>Type of patent:- Indian  Date of filling:-21<sup>st</sup> January , 2023  Patent authority:-  The Controller of Patents,  The Patents office, Mumbai  Application Number:-202321004260</p>		
03	<p><b>“Oral Suspension Composition Of <i>Prunella cretensis</i> For Antimicrobial Infections”</b></p> <p>Type of patent:- Indian  Date of filling:-06<sup>st</sup> March, 2023  Patent authority:-  The Controller of Patents,  The Patents office, Mumbai  Application Number:- 202321015055</p>		

## 5. Project guide for M.SC. Dissertation:-

1. Isolation, identification of probiotic bacteria and production of food based nutraceutical by *Capsicum annum*.(Year 2015-16)
2. Studies on some Inulinase producing bacteria from geographically different soil samples and their use.(Year 2016-17)
3. Isolation and screening of halophilic magnetotactic bacteria from the Mangroves of Khargar, Navi Mumbai.(Year 2017-18)
4. Isolation and characterization of Laccase producing bacteria from the soil samples used for the degradation of Malachite Green.(Year 2017-18)
5. Isolation and characterization of Phytase producing *Lactobacillus* species from the Idali Batter. (Year 2018-19)
6. Isolation and characterization of thermophilic Cellulase producing bacteria from the Vajreshwari Lake, Karla. (Year 2018-19).
7. Isolation and characterization of halotolerant biocellulose producing bacteria from the Mansarovar Lake, Panvel. (Year 2019-20).
8. Isolation and characterization of Urease and Carbonic Unhydrase producing bacteria from mangroves of Panvel tehsil and their role in Calcite precipitation. (Year 2019-20).
9. Isolation and screening of EPS producing Lactic Acid Bacteria and characterization of exopolysaccharide with potential application.(Year 2021-2022)
10. Antimicrobial activity of various plant extract against antibiotic resistant bacteria.(Year 2021-2022)
11. Isolation and characterization of halophilic *Azotobacter* species from the mangroves of Mansarovar Lake and its use for the production of alginate.(2022-2023)
12. Isolation and characterization of Vitamin D producing *lactobacillus* species from the various types of fermented milk sample and its potential use.(2022-2023)

## 6. Research Projects:-

Sr. No.	Title of the Project	Name of the Funding Agency	Amount (Rs. Lakhs)	Date		Remarks
				From	To	
1	“Isolation and characterization of microplastic degrading bacteria from the mangroves of Mansarovar lake and its application.”	RUSA	1,05,000/-	03 <sup>rd</sup> January 2023		Ongoing

## 7. Book Published:-

- 1) Published the **International Book** as **Author** entitled “Practical Handbook of F.Y.B.Sc. Microbiology Volume-I (90)” powered by International Journal of Microbial Science with ISBN-978-81-954694-8-2 on 27<sup>th</sup> November 2021.
- 2) Published the **International Book** as **Editor** entitled, “ Practical Handbook on Food and Waste Water Microbiology” )” powered by International Journal of Microbial Science with ISBN-978-93-93337-00-9 on 31<sup>st</sup> August 2022.

## 7. Lecture Delivered as Resource Person:-

1. Worked as Resource Person for, ”One Day Online Talk on Covid Vaccine Myths” for Under Graduate Microbiology Students of Smt. Kasturba Walchand College Sangli on 12<sup>th</sup> June 2021.
2. Worked as Resource Person for, ”One Day Online Talk on Covid Vaccine Myths” for Under D.Ed. Students of. Kasturba Junior College of Education Sangli on 22<sup>th</sup> June 2021.
3. Worked as a resource person for State Level “**One Week Certificate Course in Quality Control and Quality Assurance in Pharmaceutical and Applied Industries**” for both UG and PG students of Microbiology and Biotechnology Students organized by Kankavali College Kankavali from 21<sup>st</sup> to 27<sup>th</sup> July 2020.
4. Worked as a resource person for “One Day Workshop on Current Opportunities In Life Sciences” for undergraduate Microbiology Students” of Rajaram College, Kolhapur on 22<sup>nd</sup> December 2018.
5. Worked as Resource Person for Two Days Workshop on “Gateway to Joint CSIR-UGC NET &

Maharashtra-SET in the subject of Life Science” on 3<sup>rd</sup> February 2017 & 4<sup>th</sup> February 2017.

6. Worked as a resource person to deliver a talk on “Biological Methods Used for Waste Water Treatment” to the Microbiology students of L.B.S.College, Satara on 3<sup>rd</sup> December 2015.

**8. Membership:** -Life member of Microbiologist Society of India.

**9. Consultancy service provided and Revenue generated:**

Free Consultancy to Water ATM of Kale Village Taluka-Karad to check the microbial quality of water once in month.

**10. Academic Staff College Orientation/Refresher courses attended:**

Name of the Course	Place	Duration	Sponsoring Agency
<b>Orientation Course/</b>  Induction Course	Government Rajaram College, Kolhapur	(21 Days) 03 December 2018 to 28 December 2018	MHRD, Govt. Of India under PMMMNMST Scheme
<b>Refresher Course</b>			
<b>International Refresher course</b> “Academic Bank Credits in higher Education UGC Regulation 2021(With reference to blended learning”	Online	07 <sup>th</sup> July 2021 to 20 <sup>th</sup> July 2021	MHRD, Govt. Of India under PMMMNMST Scheme, Ramanujan College, University of Delhi
<b>Faculty Development Programme</b>			

Faculty Development Programme (Managing online Classes and Co-Creating MOOCS-02)	Online Mode	18 May 2020 to 03 June 2020	MHRD, Govt. Of India under PMMMNMSTT Scheme
Faculty Development Programme (Open Source Tool for Research)	Online Mode	08 June 2020 to 14 June 2020	MHRD, Govt. Of India under PMMMNMSTT Scheme
Faculty Development Programme (Research Methodology)	Online Mode	26 May to 01 June 2020	Pillai ACS College, New Panvel

#### 11. Participation in Webinar, conferences, symposia, seminars and workshops:

Level	Presented paper	Only attended	Chaired session	Resource person
International		<b>02</b>		
National	01	<b>07</b>		
State		<b>01</b>		
University		<b>07</b>		

#### 12. Conferences, symposia, seminars and workshops organized as convener/co-convener:-

- 1) Attended the **One Day International Webinar** on “Trends in Genetic Modification” on 9<sup>th</sup> February 2019 organized by the Microbiologist Society of India.
- 2) Worked as Co-Ordinator for **National Level Competition For Bio-Science Students** in association with IIT, Delhi from 26<sup>th</sup> & 27<sup>th</sup> September 2018.
- 3) Attended One Day T.Y.B.Sc. Microbiology Syllabus Revision Workshop held at Department of Microbiology, Wilson College, Mumbai in association with University of Mumbai on 30<sup>th</sup> June 2018.
- 4) Attended One Day National Level competition “**Ferment 2015**” Programme organized by Pasteur Club of Willingdon College, Sangli on 24<sup>th</sup> January, 2015
- 5) Worked as judge for in National Level Model Competitions in Biosciences (BioComp-2015) on Friday, 30<sup>th</sup> January, 2015 organized by Department of Microbiology, Shivaji University, Kolhapur in association with Microbiologist Society, India.
- 6) Worked as team leader of T.Y.B.Sc.-Microbiology students, secured Third Prize in State Level Quiz competition held at Y.C.I.S. Satara on 10<sup>th</sup> January 2015.
- 7) Worked as team member in organizing the workshop on, “Revised Syllabus of B.sc. part-II Microbiology” held at Department of Microbiology, Yashwantrao Chavan College

of Science Karad on 26<sup>th</sup> July 2014.

- 8) Completed wet lab training in, “Plant Tissue culture and related techniques” from GENEWIN BIOTECH, (Perandapalli) Tamilnadu on 2<sup>nd</sup> January 2013.
- 09) Participated in UGC sponsored National Seminar on, “Techniques and Applications in Forensic Science-Microbiology” organized by department of Microbiology, Yashwantrao Mohite College,Pune, held on 6<sup>th</sup> October 2012.
- 10) Delivered lead lecture on the topic, “Biotechnology in human life”, held at S.H.Patil highschool,Tadawale(Shirala) on 20<sup>th</sup> September 2012.
- 11) Participated in the workshop on, “Revised syllabus of T.Y.Bsc. Biotechnology”, organized by department of Biotechnology, Mithibai college Mumbai on 13<sup>th</sup> January 2012
- 12) Participated in the workshop on,“PCR and Bioinformatics”,organized by Department of Biological science, Gogate –Jogalekar College Ratnagiri on 25<sup>th</sup>-26<sup>th</sup> February 2012.
- 13) Worked as a team member in organizing,“Kirloskar Vasundhara International Film Festival”, organized by Kirloskar group, Pune held at Gogate-Jogalekar College Ratnagiri, on 22<sup>th</sup>-25<sup>th</sup> September 2011.
- 14) Participated in the XIVthSouthern regional conference on, “Microbial Inoculants”, held at National Institute of Oceanography (NIO) Goa, on 11<sup>th</sup>-12<sup>th</sup> February 2010.
- 15) Participated in the workshop on revised T.Y.Bsc. Syllabus in Microbiology held at Wilson College, Mumbai on 29<sup>th</sup> April 2010.
- 16) Worked as team member in organizing UGC, New Delhi sponsored regional workshop on, “Biomolecules:-Isolation and electro separation techniques in Biotechnology”, held at Department of Microbiology, Gogate-Jogalekar College Ratnagiri, on 6<sup>th</sup>-7<sup>th</sup> March 2009.
- 17) Participated in the workshop on, “Revised Syllabus of F.Y.B.sc. Microbiology”, organized by Department of Microbiology, Mithibai College, Mumbai on 24<sup>th</sup> July 2008.

### 13. Experience on the various committees at the college:-

- 1) Worked as organizing member as well as Solar Ambassador of One Day Workshop on “**Preparation of Solar Bulb**” in association with IIT, Bombay on 2<sup>nd</sup> October 17, 2019.
- 2) Worked as team member in organizing Two Days “**ISRO Space Exhibition**” on 4<sup>th</sup> and 5<sup>th</sup> January 2019 in association with **Indian Space Research Organization, Ahmadabad.**
- 3) Participated in NSS Ten Grace Marks Scrutiny Programme for North Zone of Raigad District organized by the NSS Cell Mumbai University & Pillai College of ACS College, New Panvel on 26<sup>th</sup> February 2018.
- 4) Worked as an **Evaluator for Eco-Friendly Competition** jointly organized by Ramsheth Thakur Samajik Vikas Mandal and Panvel Municipal Corporation Panvel as a part of Swacch Bharat Abhiyan 2018.



- 5) Attended District level workshop of “**Yuva Mahiti Doot**” organized by **UNISEF** and Government of Maharashtra 2018.
- 6) Participated in One-Day Workshop on Question Paper Setting in the subject of NSS(Foundation Course) jointly organized by University of Mumbai, N.S.S. Cell and N.S.S. Unit ,Changu Kana Thakur ACS College, New Panvel on 25<sup>th</sup> February 2017.
- 7) Participated in NSS One Day District Level Assessment Workshop organized by Gokhale Education Society’s ACS College, Shrivardhan on 5<sup>th</sup> March 2017.
- 8) Participated in NSS Ten Grace Marks Scrutiny Programme for North Zone of Raigad District organized by the NSS Cell Mumbai University & Pillai HOC College of ACS, Rasayani on 13<sup>th</sup> February 2017.
- 9) Participated in “**World’s Largest Walk Against Blindness**” to create the awareness for eye donation organized by Advanced Eye Hospital and Institute, Navi Mumbai on 2017.
- 10) Participated in “**University workshop on Digital India**” organized by Ministry of Electronics and Information Technology, Government of India on 24<sup>th</sup> August 2016.
- 11) Attended One Day Workshop on Evaluation of First Term End Activities and Planning of Second Term Activities 2016-17 organized by Tikambhai Mehta College, Mangaon on 9<sup>th</sup> December 2016.
- 12) Attended One Day Workshop on Curriculum and Evaluation of Foundation Course in National Service Scheme organized by **Board of Studies in National Service Scheme, University Of Mumbai** and CKT College, New Panvel on 4<sup>th</sup> October 2016.

**16. Experience on the NAAC/ IQAC of the college:-**

Member of Criteria 4 Teaching, Learning and Evaluation

**17. Experience on the Various Committees at the University of Mumbai / Government:-**

Worked as Judge for elocution and selection of Best Possible Team of Mumbai University for State Level **Utkarsh** Camp 2017-18 on 3<sup>rd</sup> February 2018.

**18. Awards/recognitions received:-**

Level	Title	Year	Awarding agency
International			
National	<b>Dr. Babasaheb Ambedkar National Research Fellowship</b>	<b>2015</b>	<b>Govt. of Maharashtra</b>
	<b>Won Second Prize at Oral presentation in National Level Seminar on Contemporary Issues in Biological Sciences</b>	<b>2020</b>	<b>Changu Kana Thakur ACS College, New Panvel</b>
State			
University			

**19. Training completed:-**

Successfully completed “**Three Days Training on Handling of Sophisticated Instruments**” (GC, FTIR, AAS, and Spectrophotometer) organized by Toshwin Analytical Pvt.Ltd. from 20<sup>th</sup> -22<sup>nd</sup> December 2016.

**20. Online course completed:-**

- 1) Successful completion of certificate course in “**Hands on training on Solar Study Lamp Assembly**” from **01 May 2019** to **31<sup>st</sup> December 2019** in association with IIT, Bombay.

**21. E-Content development workshop:-**

Successful completion of Two Days National Level workshop on “E-Content Development Tools and Techniques in Teaching and Learning Process” organized by C.K.Thakur A.C.S.College New Panvel form 29<sup>th</sup> and 30<sup>th</sup>, January 2020.

**22. BOS Member:-**

- 1) Working as BOS member of Department of Microbiology for both UG and PG level in the subject of Microbiology from the academic year 2019-20 of C.K.Thakur College, New Panvel (Autonomous).
- 2) Working as BOS member of National Service Scheme from the academic year 2019-20 of C.K.Thakur College, New Panvel (Autonomous).

**23. Paper Setter:-**

- 1) Paper setter of Microbiology paper- I of T.Y.BSc. Microbiology (Sem-V & VI)
- 2) Paper setter of Microbiology paper- II of F.Y.B.Sc. Microbiology (Sem-I & II)
- 3) Paper setter of Microbiology paper- II of M.Sc.-I Microbiology (Sem-I &II)
- 4) Paper setter of Microbiology paper- II of M.Sc. Microbiology (Sem-III & IV)