

BIO-DATA

Mrs. Yogini Ramkrishna Mulay

A. Personal Information

Educational Qualification : M.Sc. SET. Ph. D. (Microbiology)

Present Designation : **IQAC Coordinator, Vice Principal, NAAC Coordinator, Professor,** Department of Microbiology

Date of Birth : 28th June, 1974

Category : Open

Religion and Cast : Hindu, Brahmin

Gender : Female

Mobile No. : 9764988295

Address : Flat No.4, Shakambari Apt., Sai Ganesh Nagar, Bhigvan road, Baramati, Dist.: Pune, PIN: 413102

B. Educational Details

Name of Exam	Year of Passing	Name of Board / University	Subjects	Marks (%)	Class / Grade
Xth	1989	Pune Division Board	Mar, Eng, Maths, Sci, Soc-Sci, Hin	81.14	Dist.
XII th	1991	Pune Division Board	Bio, Maths, Phy, Chem, Eng	78.83	Dist.
B.Sc.	1994	University of Pune	Microbiology	71.47	First
M.Sc.	1996	University of Pune	Microbiology	63.15	First
SET	1998	University of Pune	Life Science	Qualified	
Ph.D.	2018	SPPU, Pune	Microbiology	Awarded	

C. Occupation : Service

Designation : Professor, Department of Microbiology

Institution : Department of Microbiology, Tuljaram Chaturchand College, Baramati

Date of Joining in This College : 26th August, 1996

D. Ph.D thesis title, Guide Name, Institute/Organization/University, Year of Award

Title of the thesis : Bioconjugation of enzymes and nanoparticles with special reference to amylase from Indigenous strains of *Aureobasidium pullulans*

Guide's Name : Dr. R.L. Deopurkar, 2018

University : Savitribai Phule Pune University, Pune.

E. Work Experience in chronological order

Sr. No	Position	Name of Institute	From	To	Pay Scale
1	Lecturer	T.C. College	1998	2003	8000-13500
2	Senior scale	T.C. College	2003	2009	10,000-15200
3	Selection grade	T.C. College	2009	2012	12000-18300
4	Asst. Professor	T.C. College	2009	2012	15600-39100
5	Asso. Professor	T.C. College	2012	2022	37400-67000
6	Professor	T.C. College	2022	onward	131400-217100

F. Professional Recognition/ Award/ Prize/Certificate, Fellow participant

Sr. No	Name of Award/ Recognition	Awarding Agency	Year
1	Travel grant award to participate in International conference , Singapore	BCUD	2017-18
2	Nominated as BoS member in Microbiology	SPPU, Pune	2018 to 31/08/2022
3	Appointed as an IQAC Coordinator of Tuljaram Chaturchand College	Tuljaram Chaturchand College	01/06/2020
4	Appointed as an NAAC Coordinator of Tuljaram Chaturchand College	Tuljaram Chaturchand College	01/06/2020
5	Appointed as Vice Principal	Tuljaram Chaturchand College	05/01/2021
6	Member of College Development Committee	Tuljaram Chaturchand College	17/10/2022
7	Member of Purchase committee	Tuljaram Chaturchand College	01/09/2021
8	Member of Academic Council	Tuljaram Chaturchand College	01/06/2022
9	Bharat Ratna Dr.A.P.J. Abdul Kalam National Excellence Award 2023	Bhartiya Karmachari Mazdoor Union Central Committee, New Delhi National Secretary	15/07/2023
10	Best Innovative Teaching Award 2324	Savitribai Phule Pune University, Pune	26/01/2024
11	Best Academician Award	International Conference on Innovations in Biotechnology Research For Sustainable Bioresources and Bioeconomy	15/2/2024
12	Appointed as a BoS member in Environmental Science	Mauli Green army Trust , Government of Maharashtra	26/01/24

G. Patents published/Register:

Sr.No.	Name of patent	Patent no.	Date of issue
1	Design of Wire Loop, The Patent Office, Government of India	411099-001	22/05/2024
2	Design of Petri Plate Holder, The Patent Office, Government of India	411100-001	03/05/2024
3	Enhanced Garment for optimal health management, UK Design.	6343601	08/02/2024

H. Publications

1. Sathe, S. J., **Mulay, Y. R.**, Subhedar. S. S., and Gajbhiye, M.H. (2012). Antibacterial activity of medicinal plants against dental pathogen. *Advances in plant science*, 25 (2), 659-661. ISSN 09703586 ugc approval no 09703586
2. Sathe, S.J., **Mulay, Y. R.**, Gajbhiye, M. H., Kapadnis, B. P. (2012). Purification and characterization of antifungal compounds produced by *Lactobacillus paracollinoides* isolate from fresh vegetables. *Advances in plant science*, 25(2), 653-657. ISSN 0970-3586 ugc approval no 09703586
3. **Mulay, Y.R.**, and Shinde, A.B. (2013). Bacteriological analysis of drinking water samples from different villages of Baramati Tehsil. *Interlink Research Analysis*.
4. Shinde, A .B., and **Mulay, Y.R.** (2015). Phytochemical analysis and antibacterial properties of some selected Indian medicinal plants. *International Journal of Current Microbiology and Applied Sciences*, 4(3), 228-235.
Two 18 rRNA sequences published in (<http://www.ncbi.nlm.nih.gov/nucore/term=Mulay>)
5. **Mulay, Y.R.**, and Deopurkar, R.L. (2017). Production of amylase from indigenously isolated strain of *Aureobasidium pullulans* and its hyper producing mutant. *Journal of Microbiology, Biotechnology and Food Science*, 7(3), 287-293.
6. **Mulay, Y.R.**, and Deopurkar, R.L. (2018). Purification, characterization of amylase from indigenously isolated *Aureobasidium pullulans* Cau19 and its bioconjugates with gold nanoparticles. *Applied Biochemistry and Biotechnology*, 184(2), 644-658.
7. Priti Bhosale; Pooja Bhosale; Monika Sondage, **Mulay Yogini** and Shivaji Sathe (2019) Isolation and characterization of Probiotic Bacteria from various sources . *International Journal of pharmacy and Biological Sciences* **Page No: 144-151** ISSN: 2321-3272 (Print) ISSN: 22307605(Online) **UGC Approved**
8. Jagtap Komal, Sathe Shivaji, Bagwan Nilofar, Tathwadkar Swapna and **Mulay Yogini** (2019) Studies on isolation, screening of of L-asparaginase producing bacteria, optimization and purification of L-asparaginase production. **Page No: 99-106** ISSN: 2321-3272 (Print) ISSN: 22307605(Online) **UGC Approved**
9. **Yogini Mulay**, Sheetal Owal, Pritam Chougule and Aditya Pandit (4/4/2020). Composting of floral waste by using indigenously isolated microbial consortium : An approach towards the environment sustainability and waste management ; *International Journal of Environmental & Agriculture Research (IJOEAR)* ISSN:[2454-1850] [Vol-6, Issue-4, April- 2020] **Peer reviewed**

10. **Yogini Mulay**, P.Satav,N. Chopade, K. Shelar, A. Vare.(2021).Green synthesis of Silver nanoparticles and their applications. International Journal of Environmental & Agriculture Research 7, (7), (IJOEAR) ISSN:2454-1850
11. Maitreyee Mulay and **Yogini Mulay** (2021). Metal toxicity: Adverse Effect of E-waste on Human Health and bioremediation.Ecology, Environment and Conservation. S443 -S448
12. **Yogini Mulay**, (2021)Structural and functional properties of amylases Bioinfolet.18 (3)
13. Kajal M. Gaikwad, Geetanjali E. Pansare , Monika Madane and **Yogini R. Mulay** ; (2022). Studies on Exopolysaccharide Production from Aureobasidium pullulans spi 10 and its Application as a Green Inhibitor for Corrosion mitigation, Journal of Applied Biology and Biotechnology,Vol. 10 (03) 34-43
14. Dhawal Doshi & Yogini Mulay (2024) . Microbial surface active compound (SACs) for betterment of environment." Ecology, Environment and Conservation
15. K.M. Gaikwad, K.R.Jagtap, **Y.R.Mulay** (2024). A Review on Trending Applications of Pullulan in Pharmaceutical Industry, Ecology Environment & Conservation.

I. Research Guidance:

Research Completed : 2 students completed doctor of philosophy

Research Ongoing : 3 students are registered for doctor of philosophy

M.Sc. Dissertation: **Guided 68 students for Dissertation research projects**

Sr. No.	Name of Scholar	Name of University	Month and Year Registration	Declaration of Result	Title of the Research
Completed					
1	Ganvir Vishakha Nandlal	SPPU	27/04/2016	5/7/2023	Studies on Bioremediation of Pesticide Contaminated Soils
2	Kirdat Kiran Nitin	SPPU	13/03/2018	20/10/2023	Understanding genomic factors associated with pathogenicity and transmission of 16 S rII group phytoplasmas their taxonomy , and insect vectors"
Ongoing					
3	Ms.Kajal Mahadev Gaikwad	SPPU	6/05/2023		Development of biocatalytic Model Corrosion mitigation
4	Ms. Prajakta Dattatray Markale	SPPU	6/05/2023		Development of microbial consortium for production of bioethanol by using algal biomass
5	Ms.Priyanka Vasant Mali	SPPU	09/05/2023		Biocomposite formation using pullulan and Fruit peels for eco Friendly food packaging

J. Paper Presented in national International Conferences

Sr. No.	Topic of Paper Presented	Date	Organizer
1	Global warming & its consequences	10 th to 12 th Jan 2008	Agricultural Development Trust, Shardabai Pawar Mahila Mahaidyalaya.
2	Studies on amylase and Ehanol production from yeast like fungus <i>Aureobasidium pullulan 1049</i>	11 th to13 th Jan.2011	Agricultural Development Trust Shardabai pawar Mahila Mahaidyalaya
3	Purification and characterization of antifungal compounds produced by <i>Lactobacillus paracollinoides</i> isolate from fresh vegetables.	3 rd -Feb 2012	Tuljaram Chaturchand College, Baramati
4	Antibacterial activity of medicinal plant against dental pathogen	3 rd -Feb 2012	Tuljaram Chaturchand College, Baramati
5	Production of Amylase from Indigenously isolated <i>Aureobasidiumpullulan</i>	19 th Nov. to 20 th Nov. 2008	The Regional Conference for Pune University Teachers
6	Production & kinetic study of amylase from <i>Aureobasidiumpullulan</i>	12 th Nov.– 13 th Nov. 2009	The Regional Conference for Pune University Teachers
7	Starch based renewable fuel production	14 th Sep.to 15 th Sep.2012	Shardachandra Pawar Mahavidyalay, Lonand
8	Studies on biocontrol of pea rotting by <i>Pediococcuspentosaceus</i> .	22 nd – 25 th Nov, 2012	KIIT University, Bhubaneswar, Odisha
9	Studies on Antimicrobial potential of Medicinal Plants Against Pathogens Isolated from Pus.	27 th Dec. to 28 th Dec.2012	Dept. of Botany Mahatma Gandhi Mahavidyalaya Ahmedpur Dist. Latur (MS)
10	Starch based bioethanol production	11 th Jan 2013 to 12 th Jan 2013	Dept. of Microbiology, Yashvantrao Chavan Institute of Science, Satara
11	Bacteriological analysis of drinking water samples from Baramati taluka of pune district.	18 th Jan 2013 to 19 th Jan 2013	Dept. of Botany, Maharashtra Udayagiri Mahavidyalaya, Udgir
12	Biosynthesis of silver nanoparticles by Yeast strain	19 -20 Dec. 2014	Dept. of Microbiology, HPT Arts and RYK science College , and BCUD, SPPU
13	Strain Improvement of <i>Aureobasidium pullulans</i> for glucoamylase production	9 th and 10 th February, 2016	Pune District Education Association Annasaheb Magar Mahavidyalay, Pune and BCUD, SPPU, Pune.

14	Use of <i>Aureobasidium pullulans</i> strain isolated from phyllosphere for direct alcohol fermentation.	11 -13 February, 2016	Tuljaram Chaturchand College, Baramati.
15	Green biosynthesis of Gold nanoparticles and its application : for formation of Bioconjugate of amylase	17-21 July 2017	International Union of microbiological societies Singapore
16	Antimicrobial Properties of Different Medicinal Plants: Against Bacterial Pathogens	7 th to 9 th Feb 2019	Department of Microbiology Tuljaram Chaturchand College, Baramati
17	Biosynthesis and Characterization of Yttrium oxide nanoparticles using Aeglemarmelos leaf extract and evaluation of its antimicrobial activity	17/01/2020 to 18/01/20	National conference on Phage _ A Boon in Disguise organized by Department of Microbiology. Abeda Inamdar Senior College of Arts, Science & Commerce, Pune.
18	Temple floral waste management using microbial consortium	17/01/202 to 18/01/20	National conference on Phage _ A Boon in Disguise organized by Department of Microbiology. Abeda Inamdar Senior College of Arts, Science & Commerce, Pune.
19	Optimization of feather degradation by Classical and Plackett- Burman	11/02/20 to 12/02/20	International conference on bioengineering and life sciences organized by New Arts, commerce and science college, Ahmed nagar
20	Development of nano biocatalytic model by immobilization of amylase on silver nanoparticles	24 to 26 Oct 2019	International conference on Life , chemical and health science organized by Department of Life Science Ramaiah College of Arts, Science & Commerce in collaboration with Karnataka Science and Technology Academy (KSTA) Department of IT , BT and Science & Technology . Government of Karnataka (GoK)
21	Exploring L Asparaginase producing bacterial isolates and optimization for its enhanced production	5 Feb to 6 Feb 2024	National Conference on “ Microbial bioprospecting for environmental conservation and restoration ” organized by Department of Microbiology of Shardabai Pawar Mahila Arts, Commerce & Science College, Shardanagar, Baramati
22	Unraveling the Potential of Pullulan for corrosion mitigation	15 Feb and 16 Feb 2024.	International Conference on Innovations in Biotechnology Research for sustainable Bioresources and Bioeconomy : challenges and practices . organized by Sanjivani Arts Commerce and Science College, Kopergaon

23	Antimicrobial susceptibility testing of Carboxymethylated pullulan	16 th & 17 th May 2024	International conference on Biotechnology for Better Tomorrow: BTBT2024 organized by Institute of Fundamental and Applied Research, National University (TIAME) Tashkent, Uzbekistan
24	Development of nano biocatalytic model by immobilization of amylase on silver nanoparticles	16 th & 17 th May 2024	International conference on Biotechnology for Better Tomorrow: BTBT2024 organized by Institute of Fundamental and Applied Research, National University (TIAME) Tashkent, Uzbekistan
25	Modification of pullulan by carboxymethylation	7 th Jan 2025	International conference on Pioneering Innovations in Life Science Research (ICPI-LSR) organized by Department of biochemistry of Shrimati Indira Gandhi College
26	Oral Flash Talk on Development of nanoparticle Based Antimicrobial Coating system	16 th to 18 th Jan 2025	Department of Microbiology, of M.C.E. Society's Abeda Inamdar Senior College, Pune

K. Work as a Subject Expert

Sr. No.	Name of The College	Date
1	Someshwar Shikshan Prasarak Nandal, Someshwar	18-10-2010
2	Vidya Pratishthan school of Biotechnology	24- 08-2011
3	Worked as lady representative nominated by Joint Director, Devchand College, Arjun Nagar, Kolhapur	21/01/2020
4	Subject expert for Ph D interview at Shardabai Pawar Mahila Arts, Commerce and science college Shardanagar.	31/01/2025

L. Participation in International/ National / State Level Conferences / Workshops

Sr. No.	Title	Name of Sponsoring Agency	Level	Date
1	Restructuring of syllabus T.Y.B.Sc.	UGC	University	1998
2	Relevance of Bioinformatics in Microbiology	UGC	State level conference	1998

3	Syllabus restructuring workshop	UGC	Workshops	2001
4	Syllabus restructuring workshop	UGC	Workshops	2003
5	Workshop on Genetic Engineering	UGC	State level conference	2005
6	Intercollege seminar & Group discussion	Rotary club	Workshop	23 Jan. 2007
7	National conference on Global warming	UGC	National conference	2008
8	Innovation 2008-2009	BCUD	National conference	2008
9	Syllabus restructuring workshop	UGC	University	2009
10	Innovation 2009-2010	BCUD	National conference	2009
11	Future prospect in life science	UGC	National conference	2009
12	Frontiers in Life science	UGC	National conference	Jan.2011
13	APSI Scientist meet 2012	UGC	National conference	2012
14	New horizons in applied science	UGC&Sharadchandrapawar Mahavidyalaya, Lonand, Satara	National conference	Sep. 2012
15	Microbial World :Recent Innovations and Future Trends	AMI	International Conference	Nov.2012
16	Orientation Lecture workshop for AVISHKAR 2012	BCUD & T.C. College, Baramati	Workshop	2 Dec. 2012
17	Recent trends and Future Prospects in life science	UGC & S.R.T.M. University & Dept. of Botany Mahatma Gandhi Mahavidyalaya , AhmedpurDist Latur (MS)	National conference	27 th Dec to 28 th Dec 2012
18	Applied Microbiology for globe protection	UGC & Yashvantrao Chavan Institute of science, satara	National seminar	11 th Jan. and 12 th Jan.2013
19	Recent Trends and Future prospects in Biological science	UGC & SRTM university Nanded, Dept. of Botany Maharashtra Udayagiri Mahavidyalaya ,Udgir	National conference	18 th Jan and 19 th Jan. 2013

20	Recent Development in mathematics and Statistics	UGC & Tuljaram Chaturchand College, Baramati	National Conference	14 th Feb and 16 th Feb 2013
20	Post-Independence Indian fiction in English	Dept. of English , University of pune . & Tuljaram Chaturchand College , Baramati	State level seminar	9th March 2013
21	Innovation 13	BCUD , University of pune	Regional conference.	2013
22	International conference on Emerging Horizon in Biochemical sciences Nanomaterials (EHBCSN2013)	UGC & Shri Shivaji Shikshan Prasarak Mandal, Barshi's Shri Shivaji Mahavidyalaya, Barshi	International Conference	28 th -30 novemb er 2013
23	Workshop on M Sc. II credit based syllabus detailing .	Dept. of Microbiology ,Tuljaram Chaturchand college, and bcud Savitribai phule , pune university	University	8 July. To 9 July. 2014
24	National conference on – Recent Trrends in nanoscience : Technique and Application for Life science	Dept. of Microbiology, HPT Arts and RYK science College , and BCUD, Savitribai Phule Pune University, pune	National conference	19 -20 dec. 2014
25	Vidyarthiniviyaktimatvavika skaryashala	Savitribai phule , pune university & vidyarthikalyanmandal , 8haturch8haturchand college	Regional conference	28 Jan. 2015
26	Work shop on T.Y.BSc. Microbiology Syllabus discussion	Shardabai pawarmahilavidyalaya & Savitri baiphule pune university, pune	University	30 Jan- 31jan 2015
27	Nirbhay Kanya Abhiyan - For girls	Savitribai phule , pune university & vidyarthikalyanmandal , Tuljaramchaturchand college	Regional conference	16 Feb 2015
28	Role of IQAC in industrial Quality Improvement	BCUD, Savitribai Phule Pune University, Pune , Tuljaram chaturchand college	State level seminar	26 Dec. 2015
29	Innovative trends in chemical, physical and biosciences (ITCPB 2016)	Pune district education association , Annasaheb Magar Mahavidyalaya , Hadapsar, pune 28	International conference	9-10 Feb 2016

30	International conference on plant research and resource management APSI silver Jubilee scientist meet 2016	Tuljaram chaturchand college in collaboration with academy of plant sciences , India, Muzaffarnagar (U.P.)	International conference	11-13 Feb 2016
31	National level workshop on „Chromatographic and spectroscopic findings in life science ressearch“	Vidya Pratishthans Arts ,Science And Commerce College ,Vidyanagari, Baramati, Dist- Pune in collaboration with school of Biotechnology, Baramati.	National level workshop	8 -9 March 2016
32	IUMS 17	Singapore Society for Microbiology and Biotechnology.	International conference at Singapore	17- 21 July 2017
33	Regional level workshop	Importance of YOGA	Regional workshop	4-9- 2017
34	India International Science Festival 2018 At Lucknow	National Science Congress Association	International Science Festival at Lucknow	5 th Oct 2018 to 8 th Oct 2018
35	International Conference (ICESMT 2019) Department of Microbiology Tuljaram Chaturchand College, Baramati	BCUD, SPPU, Pune	International conference	7 th to 9 th Feb 2019
36	Implementation of New CBCS F. Y. BSc. Syllabus of Microbiology 2019-20	Board Deans, SPPU and Department of Microbiology, Abasaheb Garware College.	University level Workshop	20 th July 2019
37	Implementation of M.Sc. I Microbiology Syllabus 2019-20	Board of Deans, SPPU and Department of Microbiology, Abeda Inamdar College,	University level Workshop	26 to 27 July 2019
38	Science popularization program, science Fair 2019	Mordern College of Arts, Science and Commerce sponsored by DBT, Government of India	University level	30 th Aug. 2019

39	International conference on Life, Chemical, and Health Sciences (ICLCHS)	Department of Life Sciences Ramaiah College of Arts, Science and Commerce in collaboration with Karnataka Science and Technology Academy (KSTA). Department of IT, BT and Science & Technology, Government of Karnataka (GoK)	International Level	24 th to 26 th Oct. 2019
40	Maintenance and Operation of Laboratory Equipment	Tuljaram Chaturchand College in collaboration with Western Regional Instrumentation center (WRIC), Mumbai	University level workshop	25 to 29 Nov. 2019
41	Interactive role of Faculty and students in Quality Assurance	IQAC, Tuljaram Chaturchand College, Baramati	State level Seminar	14/02/20 to 15 /02/20
42	National webinar on Assessment and Accreditation : A Revised Accreditation Framework” for Affiliated College	Tuljaram Chaturchand College under UGC-PARAMARSH scheme	National level workshop	22 April 2020 to 26 April 2020
43	National Webinar on Scientific writing in life Science	Microbiology Society of India	National Webinar	25 April 2020
44	National webinar on “Introducton to Research Design from Theory to Practice	Organized by Government of Maharashtra's Elphinston College, Mumbai	National webinar	29-30 April 2020
45	National Webinar on "Challenges and Opportunities before Indian Higher education due to Covid-19	Guru Angad Dev Teaching Learning Centre SGTB Khalsa, University of Delhi under the Pandit Madan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of MHRD	National Seminar	2/05/2020
46	Covid 19 : pandemic : Spread and Solution”	Organized by Jawaharlal Nehru University, New Delhi	National Webinar	3/05/2020
47	Effective ways to Develop E content	Organized by Devkiba Chauhan College of Commerce and science, dated on 9/5/20	National webinar	9/05/2020

48	NAAC: Systematic DATA organization and presentation	Organized by IQAC, Vidyalankar Institute of Technology, Mumbai.	National webinar	16 / 5/20
49	Conquering less attended area in NAAC and outcome based education	Organized by IQAC Cluster India and white code	National webinar	1/6/20 to 3/6/20
50	Research Methodology & SPSS	Organized by Tuljaram Chaturchand Collge under UGC Paramarsh Scheme	Regional webinar	8/06/20
51	Course outcome, Program outcome and its mapping	Organized by IQAC, Tuljaram Chaturchand College, Baram	Regional webinar	5 to 6 Oct 2020
52	Designing of MCQ questions	Organized by IQAC, Tuljaram Chaturchand College, Baramati	Regional webinar	
53	Workshop on T Y B.Sc. Microbiology Syllabus Detailing	Organized by Department of Microbiology, Sharda Bai Pawar Mahila mahavidyalaya	University level Workshop	4 to 6 June 2021
54	International conference on "Pioneering Research in Microbiology and Environmental science "	Department of Microbiology, AnnasahebMagar Mahavidyalaya	International Conference	7 to 8 Sep 2021
55	National Level Workshop on Curriculum Framework 2022 for Universities, Engineering Colleges and Degree Colleges"	Institute for Academic Excellence, Hyderabad" in collaboration with "Collegiate Education & Technical Education Department, Govt. of Telangana.	National	21 to 22 March 2022
56	National Level Workshop on Transformation through NAAC accreditation process	Institute for Academic Excellence, Hyderabad " in collaboration with "Collegiate Education & Technical Education Department, Govt. of Telangana.	National	20 to 21 June 2022
57	How to prepare and face peer team visit and SSS	White Code, IQAC Cluster India	National	19 th march 26 2 nd April 9 th

M. Refresher Courses Attended

Sr. No.	Date	University	Subject
1	10-06-2002 to 29-06-2002	Pune	Life science
2	30-10-2006 to 18-11-2006	Mumbai	Life science
3	2-12-2008 to 22-12-2008	Pune	Life science
Faculty Development Program			
4	10-10-2011 to 16-10-2011	Pune	Life science
5	18/05/2020 to 03/06/2020	Teaching learning center Ramanujan College University of Delhi	Managing online classes and co creating Moocs
6	28/12/20 to 2/12/21	ICT Academy	Faculty Development on Creative Thinking
7	1/7/21 to 7/7/21	RUSA & VPM's K G Joshi College of Arts and N G Bedekar College of Commerce Thane & Ramanand Arya D A V College , Mumbai	Faculty Development on New Education Policy in Higher Education- Context and Perspectives
8	19/03/24 to 9/04/24	IQAC Cluster India	Course on "How to face Peer Team Visits and SSS"

N. Orientation Courses Attended

Sr.No.	Date	University
1	2-03-2001 to 29-03-2001	Pune

O. Life Membership of Professional bodies

Sr. No.	Name of Professional Body
1	Association of Microbiologist of India
2	Microbiologist Society

P. Research Project completed

Sr. No.	Title	Agency	Period	Grant (Rs.)
1	Studies on Amylase from Thermophiles	BCUD	2011-2013	2,50,000/-
2	Kinetic & Catalytic properties of Amylase from <i>Aureobasidium pullulans</i>	BCUD	2008-2010	2,00,000/-

3	Production , Purification & Characterization of an Amylase from indigenously isolated strain of <i>Aureobasidium pullulans</i>	UGC	2007-2009	87,000/-
4	Studies on Vineyard isolates for the Biocontrol of fungal disease of Vitis Vinifera (Coinvestigator)	BCUD	2011-2013	2,80,000/-
5	Biofuel Production	Seed Money to Teacher , T C College	2023-2024	1,05,000/

Q. Administrative Work / Extra Curricular Work

Sr. No.	Designation	Period
1	Member of time table committee	2011-2012
2	Member of soft skill development program	2011-2012
3	Member of medical checkup committee	2011-2012
4	Worked as a departmental IQAC Coordinator	2012-2013
5	Member of time table committee	2012-2013
6	Member of Women Empowerment cell.	2012-2014
7	Member of soft skill development program	2017-18
8	Member of blood donation committee.	2012 -2015
9	STAR college scheme Ass.Coordinator	2017-2020
10	Member of placement cell & Employment news.	2016-2017
11	Member of ED cell	2019 onwards
12	IQAC Coordinator	1/06/20 onwards
13	NAAC Coordinator	1/06/20 onwards
14	Green Audit	1/06/20 onwards
15	Energy Audit	1/06/20 onwards
16	UGC PARAMARSH scheme	1/06/20 onwards
17	Member of College Development Committee	20-21
18	Member of Autonomous Steering Committee	20-21
19	Member of Planning and Evaluation Committee	20-21
20	Member of Centre for Innovative and Applied Research (CIAR)	20-21
21	Member of Student Development Committee	20-21
22	Member of antisexual Harassment Committee	20-21
23	Member of women Empowerment	20-21
24	Member of College handbook	20-21
25	Member of library Advisory Committee	20-21
26	Vice Principal	5/6/2021 onwards
27	Member of Purchase Committee	1/9/2021 to 1/9/2024
27	Member of Academic Council	15/06/22 onwards

28	Member of College Development Committee	17/10/2022 onwards
29	Member of Institute Innovation Council	2024 onwards
30	Member of Board of studies in Environmental Science	2023 onwards
31	Member of Academic Council	24/07/2023
32	Governing body meeting	9/07/2024
33	Member of Board of studies in Department of microbiology	2024
34	Member of Selection Committee of Grantable C.H.B. Assistant Professor	2024-2025
35	Member of Selection Committee of Non-Grantable Assistant Professor	2024-2025
36	Member of Selection Committee of Assistant Professor	2024-2025
37	AISHE nodal officer	2024-2025
38	NEP Cell member secretary	2024-2025
39	V C nominee for PhD interview at Rayat Shikshan Santhas S.M.Joshi College, Hadapasar,Pune	2024-2025

R. Examination work

Sr. No.	Capacity	College / University Exam	Date
1	Paper setter	T.Y B.Sc. University	2004 to 2005
2	Moderator	T.Y B.Sc. University	2004 to 2005
3	Examiner	S.Y.B.Sc. University T.Y B.Sc. University	1996 onwards
4	Senior Supervisor	University exam	9 August to 19 August 2014
5	Junior Supervisor	University	1996 onwards
6	Custodian	university exam	9 April to 24 April 2015

S. Worked as Resource Person

- 1) On occasion of Women's day delivered lecture on Mental health of women for all lady faculty member of the Tuljaram Chaturchand College, Baramati. 8th March 2020
- 2) Worked as a resource person at faculty Development Program entitled as "Mathematics for Biological Science" organized by Shardabai Pawar Mahavidyalaya on 15 June 2020 to 20 June 2020
- 3) Worked as a resource person for S Y BSc. Syllabus detailing workshop organized by Department of Microbiology, Shardabai Pawar Mahila Mahavidyalaya dated on 22/06/2020
- 4) Worked as a resource person at Webinar on "Implementation of RUSA Software for NAAC" dated on 1/12/2020 organized by Vidya Pratishthan's Arts Science and Commerce College, Baramati.
- 5) Worked as a resource person at Webinar on "Implementation of RUSA Software for NAAC" dated on 1/12/2020 organized by Sharda bai Pawar Mahila Mahavidyalaya dated on 15/12/2020
- 6) Worked as a resource person for Guest lecture series on NAAC Criteria under UGC PARAMARSH Scheme organized by Tuljaram Chaturchand College for Someshwar College of Science, Baramati.

Topic: Revised accreditation framework of NAAC Date:4/01
2021

- 7) Worked as a Academic Auditor for Baramati College of Pharmacy, Barhanpur, Baramati , dated on 23/03/2021
- 8) Worked as a guest speaker for lecture series organized by Shardabai Pawar Mahavidyalaya, entitled as “Mathematics for biological science” from 26 to 29 April 2021.
- 9) Worked as a resource person for workshop on RUSA software training dated on 21/5/21
- 10) Resource Person for Training program for RUSA software by Sangameshwar College, Solapur in association with RUSA Mumbai scheme TC college, 22 July 2021
- 11) Resource Person at the One day National Seminar on the theme “Integrated Mode of Teaching & Learning –Use of Advance ICT Tools.” Held on 20th August 2022, in collaboration with National Assessment and Accreditation Council (NAAC), being organized under the Internal Quality Cell (IQAC) of GHRIMR, Nagpur.
- 12) Resource Person for Workshop on “Quality Enhancement Initiatives for National Education Policy 2020”. Held on November 2022, organized by IQAC of Phaltan Education Society’s Mudhoji College .Phaltan .
- 13) Worked as a Resource Person for online Ph.d Course Work in Botany on topic Role of Mathematics in Life Sciences organized by Tuljaram Chaturchand College of Arts, Science and Commerce Baramati on 22 December 2023.
- 14) Resource person at Two days state level Workshop on National Education policy 2020 Topic : Multidisciplinary Education dated on 14 th and 15 th Feb 2023 sponsored by SPPU organized by IQAC, Indapur Taluka Gramvikas Pratishthan’s Vishwasrao Ransing College, Arts , Commerce and Science, Kalamb –Walchandnagar, Indapur, Pune.
- 15) Resource person at one day workshop on “Implementation of NEP -2020” Held on 21/06/23 organized by G H RAISONI College of Arts, Commerce and Science, Wagholi , Pune.
- 16) Resource person at Ph. D. Course work organized by Botany Department on 22/12/23
- 17) Resource person at Vidya Pratishthan’s Commerce & Science College at Indapur on 19/1/2024
- 18) Resource person at Vidya Pratishthan’s Commerce & Science College at Indapur
- 19) Resource person at International conference on Innovations in Biotechnology Research for Sustainable Bioresources and Bioeconomy: Challenges and Practices (IBRSBB-2024) organized by Sanjivani Arts , Commerce and science college , Kopargaon in collaboration with Ural Federal University, Russia, Swedish South Asian Network for Fermented foods (SASNET-FF, Anand , Gujrat) and Institute of fundamental and applied research, National Research University (TIAME), Tashkent , Uzbekistan on 15th and 16th February 2024.
- 20) Resource person for workshop on “Hands –on training on NAAC Accreditation process ”at Delonix Society’s Baramati College of Pharmacy dated on 7/03/2024.
- 21) Resource person in International Conference on Biotechnology for Better Tomorrow: BTBT-2024 organized by and Institute of fundamental and applied research, National Research University (TIAME), Tashkent, Uzbekistan on May, 16th to 17th.2024
- 22) Resource person for evaluation of Minor research project proposal under the scheme of seed money to teachers

T. Organized workshop

- 1) Worked as a Coordinator for Faculty Development Program on Mathematics for Biological Sciences organized by the Faculty development Center, UGC-Human Resource Development Centre, Savitribai Phule Pune University at the Tuljaram Chaturchand College, Baramati, during the period from 03/12/2018 to 9/12/2018.
- 2) Worked as a Coordinator for organization of International Conference (ICESMT 2019) in the Department of Microbiology, Tuljaram Chaturchand College. Baramati
- 3) Worked as an organizing secretary for organization of university level workshop on Maintenance and Operation of Laboratory Equipment
- 4) Organized webinar on Quality Enhancing AQAR -SSR and its documentation under PARAMARSH scheme, dated on 30/06/2020
- 5) Organized two days online workshop on “CO, PO and its mapping” dated on 5 October to 6 October 2020.
- 6) Worked as an organizing secretary for national workshop on Covid Vaccine : Truth and Untruth unfold organized by Department of Microbiology, Tuljaram Chaturchand College under the RUSA dated on 27/01/21 to 29/01/21 for 3 days.
- 7) Organized two days” workshop on Designing of MCQ , under the PARAMARSH scheme , dated on 18/05/21 to 19/05/21
- 8) Organized workshop on Training on RUSA software, under the PARAMARSH scheme, dated on 21/05/21
- 9) Organized workshop on Approaching NAAC with revised framework, under Paramarsh scheme dated on 28/9/21 to 29/9/21
- 10) Organized International Conference on Biotechnology for Better Tomorrow: BTBT-2024 organized by and Institute of fundamental and applied research, National Research University (TIAME), Tashkent, Uzbekistan on May, 16th to 17th.2024

U. Academic achievements

1. **Second prize** for poster presentation in **National Conference** “ Recent Trends in Nanoscience : Techniques and Applications for Life Sciences” organized by Dept. of Microbiology, HPT Arts and RYK science College, and BCUD, Savitribai Phule Pune University, Pune.
2. **Second prize** for poster presentation in **International conference** on “Plant Research and Resource Management” organized by Tuljaram Chaturchand College of Arts, Science and commerce, Baramati in Collaboration with Academy of plant Sciences, India, Muzaffarnagar (U.P.)
3. Received “**Gunvanti** ” award for the year of 2017-18 from Tuljaram Chaturchand College, Baramati.
4. Received **Best Innovative Teaching Award** for the year 2023-24 by Savitribai Phule Pune University, Pune
5. **Best Academician Award** at International Conference on Innovations in Biotechnology Research for Sustainable Bioresources and Bioeconomy: Challenges and Practices “ organized by Sanjivani Arts , Commerce and science college , Kopargaon in collaboration with Ural Federal University, Russia, Swedish South Asian Network for Fermented foods (SASNET-FF, Anand , Gujrat) and Institute of fundamental and applied research, National Research University (TIAME), Tashkent , Uzbekistan

V. Video link of E content developed

Bacterial Genetics S Y B.Sc.

1. <https://youtu.be/EE8jkv6sxs4> Griffith Experiment.
2. <https://youtu.be/D3adwUSmL4c> Avery Macleod Experiment
3. <https://youtu.be/ELzL9IyOEDY> Gierer and Schramm / Fraenkel-Conrat & Singer
4. https://youtu.be/ZFc_SeZs2FA B form of DNA
5. <https://youtu.be/jVM7mQbJPeE> Hydrogen bonds
6. <https://youtu.be/UI73p37CT2Y> phosphodiester bond
7. <https://youtu.be/yN784Qi6uG4> Plasmid
8. <https://youtu.be/URnjn8yNQmQ> Different forms of DNA
9. <https://youtu.be/KXXhafaCFbI> Bidirectional Mode of Replication
10. <https://youtu.be/EzaQe8vBGUM> Semi discontinuous Mode of replication
11. <https://youtu.be/ITfAZDywaBA> transcription
12. <https://youtu.be/wt2q4asFck4> translation
13. https://youtu.be/_CIHGceIo6w charging of tRNA
14. <https://youtu.be/wt2q4asFck4> 3 stages of protein synthesis
15. <https://youtu.be/GJmzrVRCg2Y> Initiation of protein synthesis

Industrial Microbiology

16. <https://youtu.be/UfXBjOIU5P0> Characteristics of Industrial Strains
17. <https://youtu.be/Qmwq8qUMbr4> Screening
18. https://youtu.be/eL2M0M_ISE8 Screening of antibiotic Producing Organisms
19. https://youtu.be/CaPpy4DV_iE Wilkins Method
20. <https://youtu.be/S7q3SebNo7w> Secondary Screening
21. <https://youtu.be/9kSGIP9OtaE> Inoculum Development
22. <https://youtu.be/m0JkljuErPs> Fermentor and it's parts.mp4
23. <https://youtu.be/9zd2NMRvAto> Process control and Monitoring.mp4nk
24. <https://youtu.be/1ginFcPQxTg> Temp Control
25. <https://youtu.be/Rr-WYV8q4rs> Foam Control
26. <https://youtu.be/QfzjQGmopV4> Causes and Consequences of Contamination
27. <https://youtu.be/EN443gvnM7Q> Precautions to avoid contamination
28. https://youtu.be/reUKXB0_J1g Fermentation media
29. <https://youtu.be/Z5fqmyK1-Ms> Carbon sources
30. <https://youtu.be/wpbCJLiZ9M> Nitrogen Source
31. <https://youtu.be/IaoA2Aqpp-U> Buffer

Soil Microbiology

32. <https://youtu.be/tM02dCJebJE> Types of soil
33. https://youtu.be/9Gnw_Ij_06g Soil Microorganisms
34. <https://youtu.be/dKqmWByy3w0> compost
35. <https://youtu.be/RK9eqFQxrjs> Nitrogen cycle
36. <https://youtu.be/YkJ1Q7lcm8> Characteristics of Organic Compound
37. <https://youtu.be/0QDIWRtYXbQ> Sulphur Cycle
38. https://youtu.be/QCIN5Q_QYFY Hemicellulose degradation
39. <https://youtu.be/vVED9YAZ920> Lignin degradation
40. <https://youtu.be/2TEYswhtKgE> carbon cycle
41. <https://youtu.be/2TEYswhtKgE> carbon cycle Molecular Biology and Genetics

42. <https://youtu.be/WAbFrSyEqZ8> Viral Genome
43. <https://youtu.be/RvXwwfX5XBQ> Bacterial Genome
44. https://youtu.be/UC_jhzymIUk Eukaryotic Genome Organization : Eukaryotic Cell cycle
45. <https://youtu.be/LIE8IP6b2r0> 30 nm fiber
46. <https://youtu.be/qVF7uCn8RJU> 300 nm Fiber
47. <https://youtu.be/0dn2uvMq2NU> Euchromatin and Heterochromatin Replication
48. <https://youtu.be/4yKrlGqITwI> Prepriming Reaction
49. <https://youtu.be/nVJK61HrhJw> Priming Reaction
50. <https://youtu.be/KXXhafaCFbI> Bidirectional mode of Replication
51. <https://youtu.be/EzaQe8vBGUM> Semidiscontinuous mode of replication
52. <https://youtu.be/6asJivTCV0w> DNA polymerase
53. https://youtu.be/_EKrf7bNa3o Termination of Replication Transcription
54. <https://youtu.be/ITfAZDywaBA> Transcription
55. <https://youtu.be/6KuDuS-nhdo> Termination of transcription
56. <https://youtu.be/DXRL144Z37g> Promoters for Eukaryotic RNA Polymerase
57. <https://youtu.be/8esBblWhc4I> Initiation of Eukaryotic Transcription RNA Pol. I
58. https://youtu.be/eYhg_WB5Iiw Initiation of Eukaryotic Transcription: RNA Pol. II
<https://youtu.be/x3Ra1cRwJU4> Initiation of Eukaryotic Transcription: RNA Pol. III DNA Damage
59. <https://youtu.be/358AopGn7v4> DNA damage
60. <https://youtu.be/4J7TsaKUHyl> Nucleotide excision repair
61. <https://youtu.be/afAxuMj7d8Q> Base excision repair
62. <https://youtu.be/maLfKanC4WY> Double strand break repair Translation
63. https://youtu.be/_qC5MddTjno Structure of mRNA, rRNA and tRNA
64. <https://youtu.be/Tg5XfoVxvX4> Different site on ribosome
65. <https://youtu.be/5bi807PrVgI> Elongation
66. https://youtu.be/_S9V4zomxsQ Termination of protein synthesis
67. https://youtu.be/_CIHGceIo6w Charging of tRNA Virus
68. <https://youtu.be/3FKoyfhJiB4> One step growth curve
69. <https://youtu.be/Jq--vInTYxo> lambda Bacteriophage
70. <https://youtu.be/EE8jkv6sxs4> Discovery of transformation
71. <https://youtu.be/zJXWXpSZE90> Generalised transduction
72. <https://youtu.be/nwfcFE2KJzw> Specialized transduction
73. <https://youtu.be/LXixvq7HoEY> Conjugation
74. <https://youtu.be/0fzF0YsXzQ0> F plasmid
75. <https://youtu.be/09QwyUnkeXQ> Cross F+ X F-
76. <https://youtu.be/hckenuxrS60> Hfr X F
77. <https://youtu.be/O-3erh-VxVg> linkage
78. <https://youtu.be/rH2uIhEP65k> cotransformation mapping
79. <https://youtu.be/dJLdc-2Gkw0> Cotransduction mapping
80. <https://youtu.be/4g57uSFtdU8> Conjugation mapping
81. https://youtu.be/YMo_nKRixWI Mendel's law
82. <https://youtu.be/dLgPguls3f8> Tetrad mapping
83. <https://youtu.be/bkPc7HMRMCM> Types of Restriction Endonuclease enzymes
84. https://youtu.be/JRqLwUYUI_g Cutting and joining of DNA
85. <https://youtu.be/YhINAKyILvk> Nomenclature of RE 3
86. <https://youtu.be/1SuScIbmgz8> Recognition sequence

87. <https://youtu.be/We61cZXvCmw> Mode of action of Restriction Endonuclease
88. <https://youtu.be/3JEeDINqwf4> Joining of molecules
89. <https://youtu.be/LLdM6TnYipw> Linker
90. <https://youtu.be/8AtoYNwgQ9w> Adaptor
91. <https://youtu.be/ambFhhhwfgg> Homopolymer tailing
92. <https://youtu.be/pQ7JNoEjr6E> Insertion of Foreign DNA
93. <https://youtu.be/Oi1hAxhtytE> Plasmid vector
94. <https://youtu.be/Y8clqiTO0og> Bacteriophage Vectors
95. <https://youtu.be/IC5FaBuMnrQ> Cosmid
96. <https://youtu.be/zc5ZUN5TZow> BAC
97. <https://youtu.be/DEMjQRwbreM> PAC
98. https://youtu.be/h1oC_ZCXLe Expression vector
99. <https://youtu.be/qLxcpPHHwgc> Phagemid