



!! सिद्धिनेकान्तात् !!

Anekant Education Society's



Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati

- Affiliated to Savitribai Phule Pune University, Pune (M.S.) India •
- Empowered Autonomous •
- Religious Minority Institution •
- NAAC REACCREDITED 'A+' Grade (CGPA 3.55) •
- Website : www.tccollege.org •

Department of Microbiology



About the Department

The Department of Microbiology at Tuljaram Chaturchand College was established in 1990 with a B.Sc. program and expanded in 2007 with an M.Sc. program. It became a recognized Research Center under Savitribai Phule Pune University in 2016. Currently, 18 Ph.D. students are guided by three research mentors, and a woman scientist is conducting postdoctoral research under the DST-WOS-A scheme. The department offers skill-based certificate courses and has received funding from DST-FIST, DBT-STAR College, and CPE, enabling advanced research infrastructure. It has completed four major research projects and nine minor projects, securing grants of approximately Rs. 1 Crore. Faculty and students actively publish research, with 91 papers in reputed journals over the past 15 years. Research areas include agricultural microbiology, fermentation technology, nanoscience, bioremediation, and environmental microbiology. The department collaborates with industry partners to enhance student employability and maintains a strong alumni network. It also provides consultancy services, in microbiological water testing and antimicrobial activity assessments and organizes health check-up camps as part of its outreach initiatives.

Vision

Educating Future Leaders: To provide high-quality education and training to students and professionals, preparing them to excel in microbiology-related fields and contribute to scientific advancements.

Mission

- To establish a nurturing educational environment within the department.
- To nurturing the development of knowledge and skills in microbiology.
- To equip students with competence to tackle real-world challenges.
- To promote the application of microbiological knowledge for the advancement of society.

Key Features

- Highly qualified and experienced teaching staff.
- Department organize field visits/study tours.
- Department runs skill-based certificate courses.
- Sophisticated Laboratories.
- Research center and affiliated to SPPU
- Consultancy services

Staff Profile

Sr. No.	Name	Designation and Qualification
1.	Prof. (Dr) Sunil Pawar	Professor and Head, M.Sc., Ph.D
2.	Prof(Dr) Milind Gajbhiye	Professor, M.Sc., SET, Ph.D
3.	Prof. (Dr) Yogini Mulay	Vice-Principal and Professor, IQAC Coordinator M.Sc., SET, Ph.D
4.	Mr. Dhawal Doshi	Assistant Professor, M.Sc., NET (CSIR-JRF)
5.	Mrs. Komal Jagtap	Assistant Professor, M.Sc., B.Ed.
6.	Miss. Priti Bhosale	Assistant Professor, M.Sc.
7.	Miss. Sheetal Owai	Assistant Professor, M.Sc.
8.	Miss. Ruchita Honrao	Assistant Professor, M.Sc.
9.	Miss. Kajal Gaikwad	Assistant Professor, M.Sc., SET, ASRB-NET
10.	Miss. Puja Dhapate	Assistant Professor, M.Sc., SET, NET (LS)
11.	Miss. Nikita Deokate	Assistant Professor, M.Sc.
12.	Miss. Prajakta Markale	Assistant Professor, M.Sc., SET, NET (LS)
13.	Miss. Sayali Jadhav	Assistant Professor, M.Sc.
14.	Miss. Priti Jadhav	Assistant Professor, M.Sc., SET

Programme and Courses Offered

Sr. No.	Name of the Programme	Date of Establishment	Duration
1.	B.Sc. Microbiology	1990	3/4 years
2.	M.Sc. Microbiology	2007	1/2 years
3.	PhD. Microbiology	2016	3/5 years

Skill Development Courses

- Quality control techniques in food & dairy industry
- Research Methodology

Facilities

- Five Laboratories equipped with all facilities, Three Classrooms with ICT facility.
- High end instruments for research such as: Laboratory scale Fermenter, ELISA reader, PCR machine, N2 analyzer, UV-visible spectrophotometer, spray dryer, homogeniser, Laminar air flow system, Cooling Incubator, Cooling Centrifuge, Defreezer, etc.

Research

Research Centre Details

Name of Research Centre	Area of Specialization	Year of Establishment	Total Guides	Total PhD Awarded students	Total Ph.D. Student enrolled
Department of Microbiology	Microbiology	2016	04	07	16
Publication Research articles- 110 Patent -06 Books - 03					

Major Research Projects Sanctioned to Teacher (From 2006 - 2024)

Sr. No.	Name of Investigator	Title of project	Funding Agency	Sanctioned Amount (Rs.)	Duration	Status
1.	Prof (Dr) Sunil Pawar	Algal soil- acclimatizers for cultivation of plantlets in saline soil	UGC, New Delhi (Major)	8,70,807/-	2011-14	Completed
2.	Prof (Dr) Shivaji Sathe	Use of lactic acid bacteria/their product against fungal diseases of grape plant.	UGC (Major)	9,05,000/-	2012-15	Completed
3.	Prof (Dr) Sunil Pawar	Bioremediation of salt affected soils using halotolerant PGPR and cyanobacterial inoculants	DBT, New Delhi (Major)	46,15,000/-	2013-16	Completed
4.	Prof (Dr) Milind Gajbhiye	Bactericidal bacteriophages consortium: A novel tool for the biocontrol of oily spot disease of pomegranate	DST-SERB, New Delhi (Major)	27,38,000/-	2019-22	Completed
5.	Mrs. Dipali Pakhare Mentor: Prof (Dr) Sunil Pawar	Design, synthesis and antimicrobial and anticancer evaluation of B-carboline derivative bearing oxazole moiety	(WOS-A) under DST (Major)	30,91,392/-	2020-24	Completed

Activities

- Skill Enhancement capacity development activity : 20

Collaborations and MoUs

- Mangalam Agrotech.Manchar
- Q Edge, Pune
- Green Vitals of Biotechnology, Pune

Students Achievements

- Total no. of students qualifying SET/NET/GATE (2019 - 2024) - 24
- Placement (2019 - 2024) - 111

Extension activity

- Every year we organize one day activity with aim to provide nutritious food to orphan students, ensuring they receive healthy food.

Best Practices

Health Check-Up Camp

Contact Details

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