



सत्यमेव जयते

Government of Maharashtra



HBSU

Dr. Homi Bhabha State University

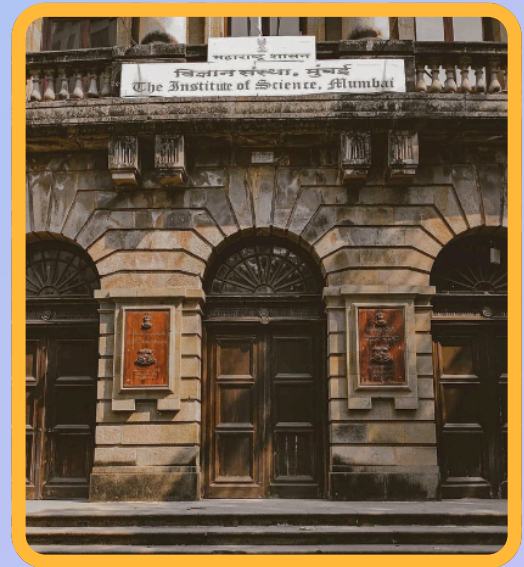
Dr. Homi Bhabha State University, Mumbai

The Institute of Science, Mumbai

ESTD 1920

Department of Microbiology

2025-26



15, Madame Cama Road, Mumbai, Maharashtra 400032

[hbsu://hbsu.ac.in](https://hbsu.ac.in)

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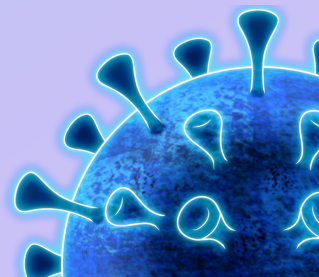
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ABOUT THE DEPARTMENT

Established in June 1984, the Department of Microbiology is the youngest aided department at the Institute of Science. We specialize in innovative programs in microbial sciences. Our state-of-the-art facilities and dynamic curriculum blend theoretical study with practical research. Led by distinguished faculty, our research extends to areas like infectious diseases, environmental microbiology, and the impact of microbes on agriculture. We prepare our graduates to address scientific challenges, leading advancements in healthcare, industry, agriculture, and environmental conservation. Beyond academics, our mentoring system addresses students' day-to-day academic and personal challenges, ensuring a supportive environment that enhances learning experience.



A MESSAGE FROM THE HOD



Prof. Rupendra Jadhav

Welcome to the Department of Microbiology! Our curriculum spans cell biology, genetics, molecular biology, and more, integrated with practical skills in R programming, biostatistics, and bioinformatics. Our goal is not merely to educate but to enhance students' capabilities extensively, preparing them to tackle complex research and professional challenges in microbiology. We focus on nurturing critical thinking, research proficiency, and communication skills, ensuring students graduate as a well-equipped and innovative microbiologist ready to contribute significantly to the scientific community.

FACULTY MEMBERS



PROF. RUPENDRA SACHCHIDANAND JADHAV



Mr. Rajendra Gangadhar Choure



Mrs. Sangeeta Kedarnath Jangam



Prof. Ulhas Kashinath Patil

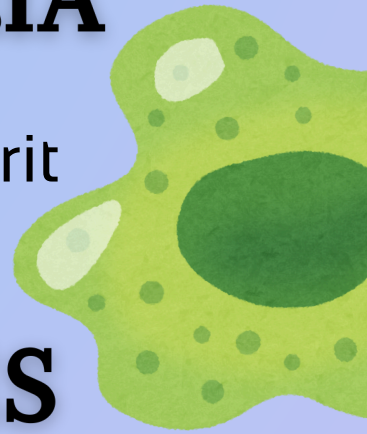
PROGRAMMES WE OFFER



M.Sc. Microbiology
Ph. D. Microbiology

ELIGIBILITY CRITERIA

B.Sc. Microbiology; as per merit



BOARD OF STUDIES

- Prof. Rupendra Jadhav
- Prof. Ulhas Patil
- Prof. Manohar Padul
- Mrs. Sangeeta Jangam
- Mr. Rajendra Choure
- Mrs. Deepa Hirani
- Dr. Shekhar Jadhav
- Dr. Utkarsha Lekhak
- Dr. Samadhan Waghmode
- Prof. Girish Pathade
- Prof. Bhushan Chaudhari



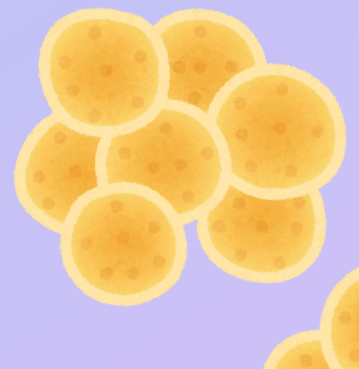
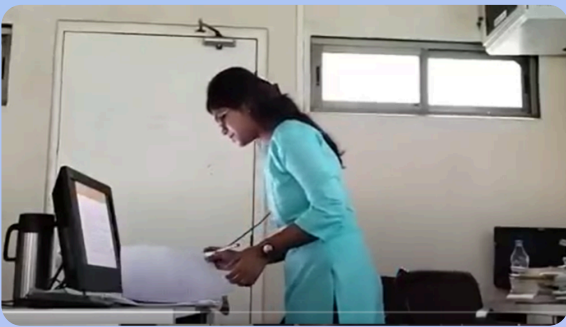
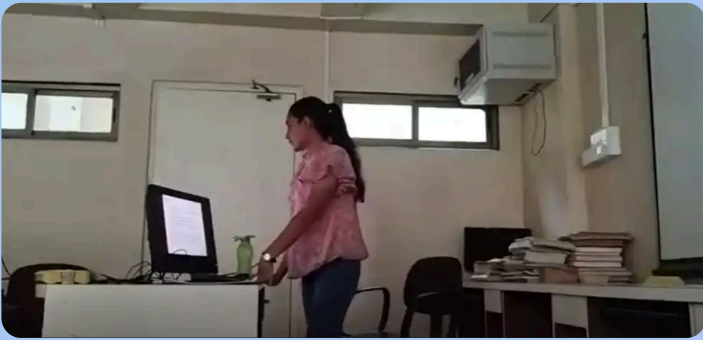
CREDIT DISTRIBUTION (NEP)

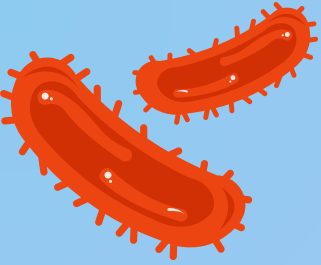
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		DSC		DSE		T	P	T	P	VSC	SEC	AEC	IKS	VEC	CC	FP	CEP	OJT/nt/pp/RT		RM
		T	P	T	P															
4.5	I	4	2	--	--	4	--	2	--	2	--	2	2	2	2	-				22
	II	4	2	--	--	4	--	2	--	2	--	2	2	2	2	-				22
5	III	4	2	--	--	4	2	3		2+1	2	--		2						22
	IV	4	2	--	--	4	2	3		2+1	2	--		2						22
5.5	V	9	3	6	-	--	-	-	2			--				2				22
	VI	9	3	6	-	--	-	-	2							2				22
Total		34	14	12	--	16	4	10	8	6	8	4	4	8	-	4	-	-	-	
		48	12			20		10	14		16				12					132



FESTS & EVENTS

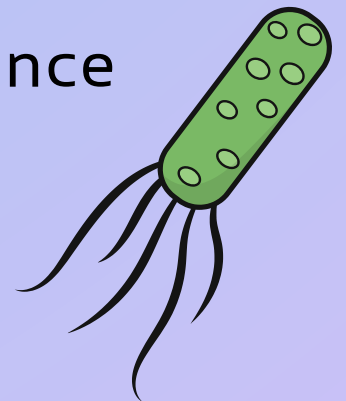
Journal Club Twice a Week,
Microbus: Microbiology Fest





KEY FEATURES

1. Hands-on training in cutting-edge tools such as R programming, biostatistics, LaTeX, and bioinformatics.
2. Regular mentoring to address academic and personal challenges, enhancing the learning experience.
3. Emphasis on developing critical thinking and logical reasoning skills.
4. Opportunities for students to plan and conduct microbiology experiments based on curricular and personal interests.
5. Journal club meetings twice a week to improve oral presentation skills.
6. Assignments designed to enhance writing skills and research communication.
7. State-of-the-art facilities with advanced instrumentation to support both teaching and research activities.



INSTRUMENTS AVAILABLE AT THE DEPARTMENT OF MICROBIOLOGY



HPLC System with UV-VIS and RI Detector and Fraction Collector



RT PCR System



Thermocycler



Phase Contrast Microscope



Fluorescence Microscope



UV Visible Double Beam Spectrophotometer



Microplate Readers



Speed Vac with Vacuum Pump



Highspeed Cooling Centrifuge
Kubota 3700



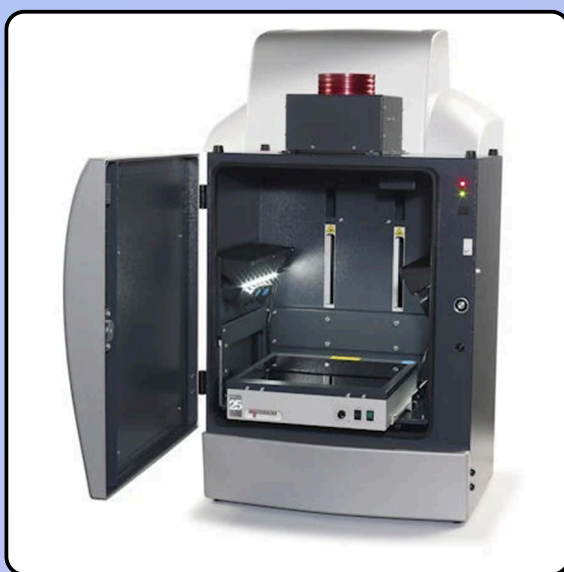
Orbital Shaking Incubators



Transverse Flow Filtration System



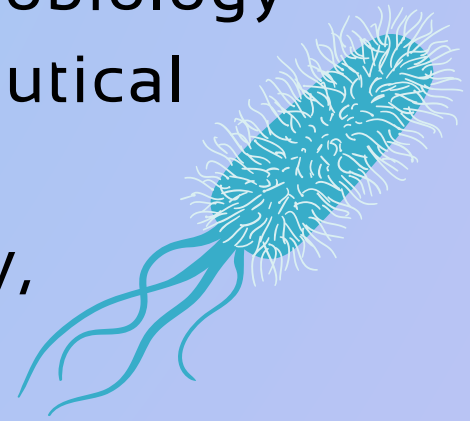
Autoclaves



Balances

INTERNSHIP, PLACEMENT & JOB OPPORTUNITIES

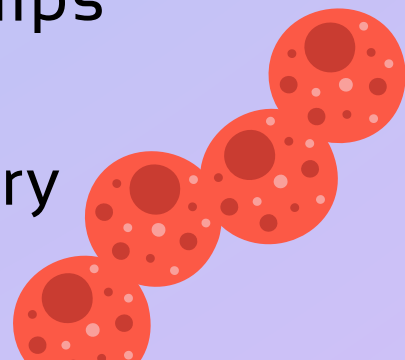
1. Industry Connections: We recommend students to microbiology industries such as pharmaceutical companies, API production companies, the food industry, diagnostic laboratories, and environmental controlling laboratories.



2. Resume and Interview Preparation: Guidance in preparing resumes and honing interview skills to enhance job prospects.

3. Relevant Credentials: Support in developing significant credentials like dissertation theses, which increase employability and selection chances.

4. Internship Opportunities: Assistance in securing internships across various fields, providing practical experience and industry exposure.



CONTACT DETAILS

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Student Coordinator:

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