



सत्यमेव जयते

Government of Maharashtra



Dr. Homi Bhabha State University

**Dr. Homi Bhabha State University, Mumbai**

**The Institute of Science,  
Mumbai**

ESTD 1920

**DEPARTMENT OF BIOTECHNOLOGY**

2025-26



15, Madame Cama Road, Mumbai, Maharashtra 400032

[hbsu://hbsu.acin](http://hbsu.acin)

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# ABOUT THE DEPARTMENT

THE DEPARTMENT OF BIOTECHNOLOGY WAS ESTABLISHED IN THE ACADEMIC YEAR 2003 -2004 AS A SELF-SUPPORTING COURSE WITH THE STRENGTH OF 20 STUDENTS EACH YEAR. FACULTY MEMBERS ARE COMPETENT AND ACTIVELY INVOLVED IN RESEARCH. IN ADDITION, EMINENT PERSONS ARE INVITED AS VISITING FACULTY. THE LABORATORY IS WELL-EQUIPPED WITH INSTRUMENTS.

RESEARCH/INDUSTRIAL TRAINING IS GIVEN TO THE STUDENTS FROM MAY-JULY IN VARIOUS RESEARCH INSTITUTES LIKE BARC, TIFR, HAFFKINS, ACTREC, IIT, ICT, AND RESEARCH CENTRES OF DIFFERENT LEADING HOSPITALS. REGULAR VISITS OF THE STUDENTS ARE ORGANIZED TO THE INDUSTRIAL AND RESEARCH INSTITUTES TRAINING IN BASIC LABORATORY TECHNIQUES TO CELL CULTURE TECHNIQUES TO EACH STUDENT.

RESEARCH ACTIVITIES HAVE BEEN INITIATED RECENTLY THE STUDENTS ARE PRESENTING THEIR WORK AT THE RESEARCH SCHOLAR MEET. THE FACULTY IS ACTIVELY INVOLVED IN RESEARCH ACTIVITIES.



# A MESSAGE FROM THE HOD



**Prof. Rupendra Jadhav**

*WELCOME TO THE DEPARTMENT OF BIOTECHNOLOGY. IT IS ONE OF THE FINEST PLACES FOR STUDENTS WHO WANT TO PURSUE THEIR CAREER IN BIOTECHNOLOGY. THOUGH THE DEPARTMENT IS SELF-FINANCED, IT IS BEING SUPPORTED BY OTHER DEPARTMENTS OF THE INSTITUTE IN ALL ACADEMIC MATTERS. THE EDUCATIONAL EXPERTISE AVAILABLE IN THE INSTITUTE IS ACTIVELY PARTICIPATING IN THE GROWTH AND DEVELOPMENT OF THE STUDENTS OF THE DEPARTMENT. MENTORING OF THE STUDENTS IS DONE BY THE DEPARTMENT FACULTY AND ALUMNI OF THE DEPARTMENT ACT AS RESOURCE FOR THE INFORMATION ON CAREER OPPORTUNITIES.*

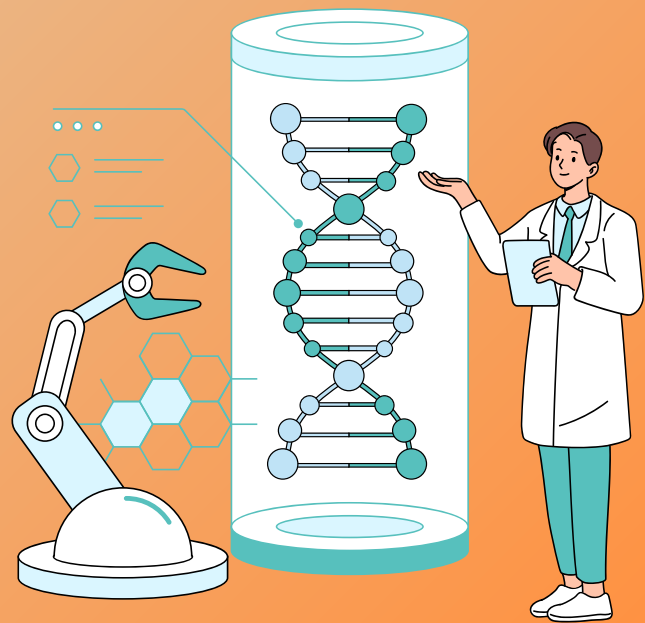
# FACULTY MEMBERS



**Prof. Rupendra Jadhav**

## PROGRAMMES WE OFFER

*M.SC. BIOTECHNOLOGY,  
PH.D. BIOTECHNOLOGY*



# ELIGIBILITY CRITERIA

*B.SC. IN BIOTECHNOLOGY, LIFE SCIENCES,  
MICROBIOLOGY, BOTANY, ZOOLOGY,  
BIOINFORMATICS, AGRICULTURAL SCIENCES,  
FISHERIES SCIENCES, VETERINARY SCIENCES  
AND ANY OTHER APPLIED OR ALLIED  
BIOLOGICAL SCIENCES*



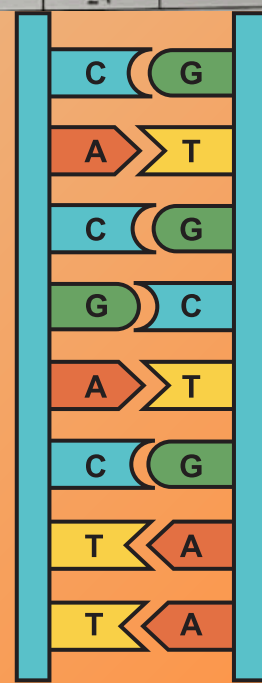
# BOARD OF STUDIES

- *PROF. RUPENDRA JADHAV*
- *DR. PARAG MASRAM*
- *PROF. ULHAS PATIL*
- *PROF. MANOHAR PADUL*
- *DR. SHEKHAR JADHAV*
- *DR. UTKARSHA LEKHAK*
- *MR. RAJENDRA CHOURE*
- *MRS. SANGEETA JANGAM*
- *DR. RAJESH RAUT*
- *DR. RUPESH RAUT*
- *DR. SAMADHAN WAGHMODE*
- *PROF. NEETIN DESAI*
- *DR. G MAHAJAN*
- *DR. VIJITA PILLAI*



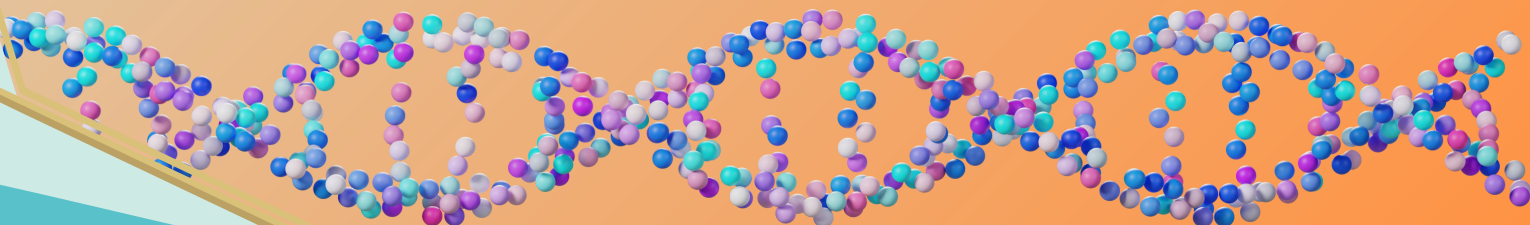
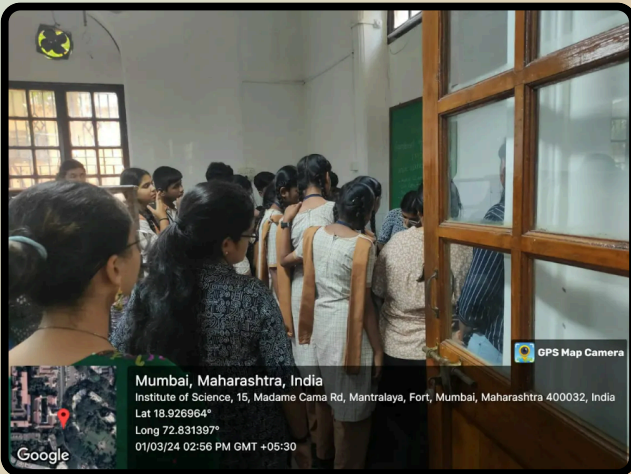
# CREDIT DISTRIBUTION (NEP)

Semester	Code	Code	Subject	Student Intake	Theory credits	Practical Credits	Theory workload	Practical workload	Semester Total Workload
I	DSC1-1	MSBTDC101T	Biochemistry and Metabolism	20	4	2	4	8	44
	DSC1-2	MSBTDC102T	Immunology	20	4	2	4	8	
	DSE1-1	MSBDTE101T	Biochemical and Biophysical Techniques	20	4	2	4	4	
	Minor	MSBTRM101T	Research Methodology	20	4	0	4	0	
II	DSC1-3	MSBTDC201T	Bioprocess Technology	20	4	2	4	8	52
	DSC1-4	MSBTDC202T	Molecular Biology	20	4	2	4	8	
	DSE1-2	MSBTDE201T	IPR, Biosafety and GMO	20	4	2	4	8	
	OJT/LAB	MSBTFP201P/ MSBTOJ201P	Field Project/ On Job Training	20	0	4	0	16	
III	DSC1-5	MSBTDC301T	PTC & ATC	20	4	2	4	8	48
	DSC1-6	MSBTDC302T	Medical Microbiology	20	4	2	4	8	
	DSE1-4	MSBTDE301T	Bioinformatics	20	4	2	4	4	
	RP	MSBTRP301P	Research Project	20	0	4	0	16	
IV	DSC1-7	MSBTDC401T	Applied Biotechnology, Genetic engineering and Developmental biotechnology	20	4	2	4	8	52
	DSC1-8	MSBTDC402T	Biostatistics	20	4	0	4	0	
	DSE1-6	MSBTDE401T	Nanotechnology	20	4	2	4	8	
	RP/LAB	MSBTRP402P	Research Project	20	0	6	0	24	



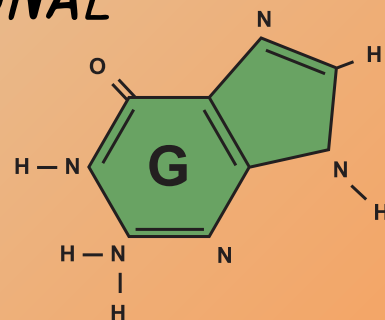
# FESTS & EVENTS

## DEPARTMENT ORGANIZES BIONICS



# KEY FEATURES

1. *HANDS-ON TRAINING IN CUTTING-EDGE TOOLS IN BIOTECHNOLOGY 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 SCIENTIFIC EXPERIMENTS BASED ON CURRICULAR AND PERSONAL INTERESTS.*
5. *TRAINING 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.*



# INTERNSHIP, PLACEMENT & JOB OPPORTUNITIES

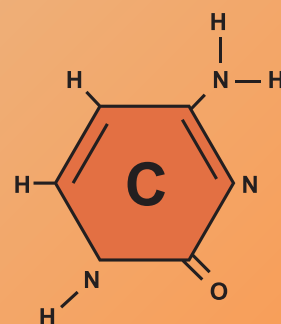
*THE DEPARTMENT FACILITATES STUDENTS TO GET INTERNSHIPS IN VARIOUS INDUSTRIES, RESEARCH INSTITUTES, MEDICAL DIAGNOSTICS LABS, AND HOSPITALS IN AND AROUND MUMBAI.*

*1. \*INDUSTRY CONNECTIONS:\* WE RECOMMEND STUDENTS TO VARIOUS 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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