

Department OF Biotechnology (B.Sc)

About the department

Established in 2002, the Department of Biotechnology at Jai Hind College offers a specialized course with updated syllabi, experienced faculty, and well-equipped labs. We provide engaging learning through interactive methods, research projects, and internships. Our graduates excel in prestigious institutions and diverse biotech careers.

About the Joint Coordinators

Dr. Kruti Pandya, with a Ph.D. in biochemistry from TNMMC, is passionate about teaching biotechnology. She has guided many undergraduate research projects and published several papers, often with students. Dr. Pandya is also part of various college committees and boards.

Dr. Nissey Sunil has been teaching biotechnology since 2005 and holds a Ph.D. in bioanalytical sciences from the University of Mumbai. She brings experience from both research institutes and corporate R&D to her teaching. Dr. Sunil mentors students in research and aims to make learning enjoyable.

Message from the Joint Coordinators

The Bachelor of Science in Biotechnology program covers many areas, including genetics, molecular biology, biochemistry, immunology, cell biology, bioinformatics, nanotechnology, neurobiology, developmental biology, tissue culture, microbiology, biostatistics, bioethics, intellectual property rights (IPR), biosafety, nutrition and dietetics, research methods, and entrepreneurship. We aim to provide comprehensive knowledge, training, and a supportive environment for aspiring biotechnologists to grow and succeed as an autonomous department.

Faculty Details

Dr. Kruti Pandya.

Designation: Joint-Coordinator

Qualification: Ph.D. Biochemistry, SET, B. Ed

Specialization: Biochemistry, Biotechnology, Immunology, Bioinformatics, Molecular Biology, Research Methodology, Entrepreneurship

Experience: 23 Years

Email Id: kruti.pandya@jaihindcollege.edu.in

Research: Authored/Co-authored: 8 research papers, Research Projects: 2 minor projects, Gene Sequences Deposited: 9, Scientific Posters: 3, Roles: Reviewer for Xplore Research Journal, Subject Expert for Ph.D. students at Navrachana University

Dr. Nissey Sunil.

Designation: Joint-Coordinator

Qualification: Ph.D. Bioanalytical Sciences, NET

Specialization: Biochemistry, Biotechnology, Analytical chemistry, Cell Biology

Experience: 17 Years

Email Id: nissey.sunil@jaihindcollege.edu.in

Research: Authored/Co-authored: 6 research papers, Research Projects: 1 minor project, Scientific Posters: 1

Dr. Hiral Pandya

Designation: Assistant Professor

Qualification: Ph.D. Biotechnology, NET

Specialization: Microbiology, Biotechnology,
Fermentation technology

Experience: 06 Years

Email Id: hiral.pandya@jaihindcollege.edu.in

Research: Authored/Co-authored: 1 research paper, Poster/Oral Presentations: 6 presentations, Fellowships and Awards: 3 awards, Organism Deposition: 1 (Bacillus sp. T8)

Dr. Monalisa Chakraborty

Designation: Assistant Professor

Qualification: Ph.D. Biotechnology, RET

Specialization: Nano chemistry,
Biotechnology, Molecular Biology

Experience: 04 Years

Email Id: monalisa.chakraborty@jaihindcollege.edu.in

Research: Authored/Co-authored: 17 research papers, Book/Chapter Published: 3 chapters, Reviewer: Clinical Phytoscience (2019-2022), Research Projects: 4 projects, Professional Presentations: 6 presentations

Ms. Nandini Desai

Designation: Assistant Professor

Qualification: MSc. Biotechnology, SET, GATE

Specialization: Biotechnology, Microbiology,
Biochemistry

Experience: 07 Years

Email Id: nandini.desai@jaihindcollege.edu.in

Research: Authored/Co-authored: 1 research paper, Ph.D. Research Project: 1 project, Oral/Poster Presentations: 3 presentations

Dr. Vedika Bane

Designation: Assistant Professor

Qualification: MSc. Microbiology, SET

Specialization: Microbiology, Biotechnology, Food Microbiology, Biostatistics **Experience:** 12 Years

Email Id: vedika.bane@jaihindcollege.edu.in

Research: Oral Presentations: 2 presentations

Ms. Ruqayya Manasawala.

Designation: Assistant Professor

Qualification: MSc. Biotechnology, SET

Specialization: Biotechnology, Bioinformatics

Experience: 03 Years

Email Id: ruqayya.manasawala@jaihindcollege.edu.in

Research: Research Publications: 4, Poster Presentations: 5, Oral Presentations: 1

Program Offered

1. B.Sc in biotechnology (Self-Financed)

Society/Cell Under Department

1. Genaces

The Department of Biotechnology held its annual festival, Genaces 2023—Bioflix, on January 25, 2023, promoting scientific temperament and entrepreneurship among students. Coordinated by S.Y. B.Sc. students with support from F.Y. and T.Y. students, it featured activities like The Big Shot Game Show and Bioheist, drawing over 140 participants. Special guest Ms. Krishma Shah, cofounder of Clinibiz and a Forbes-featured young entrepreneur, added to the event's success.

2. Year-Round Activities

The Department of Biotechnology engages students with seminars, workshops, webinars, and visits to research institutes. Highlights include workshops on antimicrobial resistance, webinars on biomedical engineering, and visits to NCMR and ACTREC. During the pandemic, virtual lab tours and webinars ensured continuous learning.

Student Achievement

Students from the Department of Biotechnology have achieved numerous accolades from 2018–2023, including top prizes at the Xplore competitions, Sumitomo Scholarships, and awards at national and international conferences. Highlights include victories at the National Microbiolympiad, Avishkar UG category, and E-Shodh competitions. Several students have also excelled in research publications, presentations, and entrance examinations like IIT-JAM and TIFR GS2021. Their achievements reflect the department's emphasis on academic excellence and research.