

Department of Biotechnology Jai Hind College - Autonomous





DEPARTMENT OF BIOTECHNOLOGY OFFERS BACHELOR OF SCIENCE IN BIOTECHNOLOGY



Scope of Biotechnology

The Bachelor of Science in Biotechnology is an interdisciplinary, comprehensive course comprised of various subjects like

- Genetics
- Molecular Biology
- Biochemistry
- Immunology
- Microbiology
- Genetic Engineering
- Cell Biology
- Bioinformatics
- Nanotechnology
- Medical Biotechnology
- Virology

- Neurobiology
- Developmental Biology
- Endocrinology
- Plant Tissue Culture
- Animal Cell Culture
- Fermentation Technology
- Environmental Science
- IPR and Patents
- Biosafety and Bioethics
- Quality Assurance
- Food Technology

Biotechnology



Under the flagship of Autonomy the Department of Biotechnology, Jai Hind College strives to impart in depth knowledge, training and holistic development environment to aspiring Biotechnologists.

Faculty Profile

Faculty	Designation	Qualifications
Dr. Kruti Pandya	Joint Coordinator	Ph.D Biochemistry
Dr. Nissey Sunil	Joint Coordinator	Ph.D Bioanalytical Science
Dr. Monalisa Chakraborty	Assistant Professor	Ph.D Biotechnology
Dr. Hiral Pandya	Assistant Professor	Ph.D Biotechnology
Mr. Nikhil Bardeskar	Visiting faculty	Pursuing Ph.D (NIRRH)
Ms. Ruquayya Manasawala	Visiting faculty	MSc. Biotechnology
5/25/2020 DEPARTMENT OF BIOTECHNOLOGY		

SPECIAL FEATURES

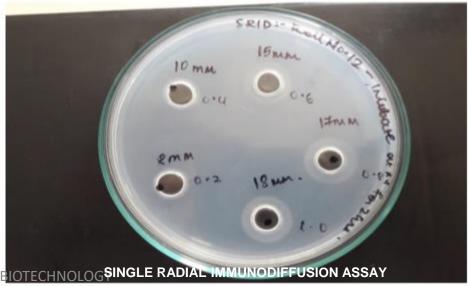
- A Large and well equipped Laboratory for undergraduate practical class.
- Plant tissue culture laboratory with Laminar air flow cabinet.
- Departmental library.
- Teachers have received recognition for M.Sc in Biotechnology.
- Teachers have completed minor research projects funded by Mumbai University and University Grants Commission.
- Teachers actively involved in guiding students for various activities such as research projects, competitive entrance exams.
- Many students have won prizes at Inter Collegiate Research meets and National level Competitions.

Practical In Progress









Courses offered-B.Sc Biotechnology FYBSC-SEMESTER I

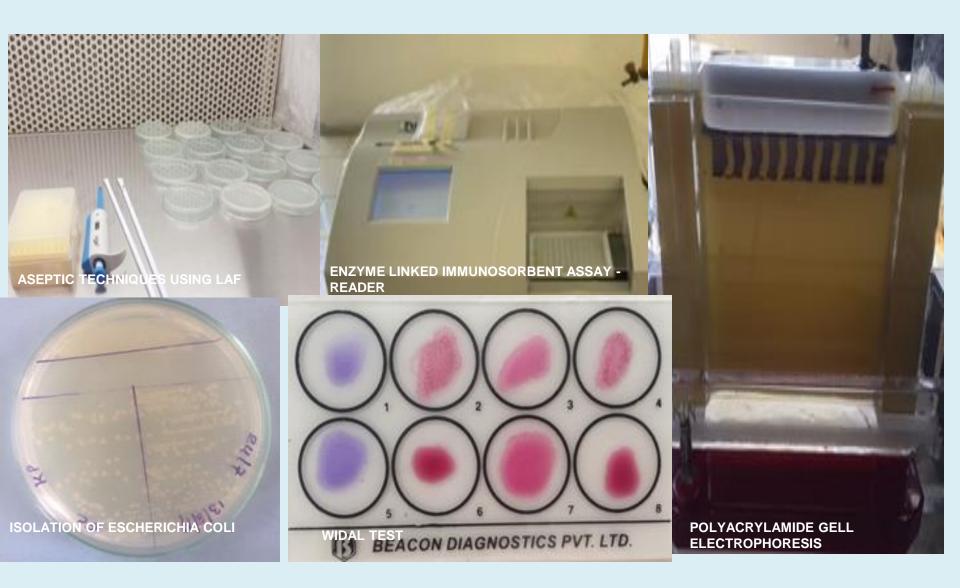
Course 1 SBT101	Introduction to Biotechnology	Course 2 SBT102	Genetics
Course 3 SBT103	Biodiversity, Experimental Models and Ecology	Course 4 SBT104	Techniques in Biological Sciences
Course 5 SBT105	Fundamentals in Chemistry-I	Course 6 SBT106	Fundamentals in Chemistry-II

Courses offered-B.Sc Biotechnology

FYBSC-SEMESTER II

Course 1	Cell Biology and	Course 2	Molecular Biology and
SBT201	Physiology	SBT202	Genetics
Course 3	Enzymology, Vitamins and Immunology	Course 4	Tissue Culture and
SBT203		SBT204	Biostatistics
Course 5	Macromolecular	Course 6	Physical and Analytical
SBT205	Chemistry	SBT206	Chemistry

Practical In Progress



Courses offered-B.Sc Biotechnology

SYBSC-SEMESTER III

Course 1	Cell Biology and	Course 2	Molecular Biology
SBT301	Immunology	SBT302	
Course 3	Food and Fermentation	Course 4	Environmental
SBT303	Technology	SBT304	Biotechnology
Course 5	Bio-organic Chemistry	Course 6	Methods in Analytical
SBT305		SBT306	Chemistry
Course 7 SBT307	Scientific Research Methodology		

Courses offered-B.Sc Biotechnology

SYBSC-SEMESTER IV

Course 1	Molecular Immunology	Course2	Gene Regulation and Cloning
SBT401	and Cytoskeleton	SBT402	Tools
Course 3	Medical Microbiology	Course4	Eukaryotic Genetics and
SBT403		SBT404	Biostatistics
Course 5 SBT405	Applied Chemistry – I	Course6 SBT406	Applied Chemistry – II
Course 7 SBT407	Entrepreneurship and IPR		

Innovative Techniques-Teaching, Learning and Assessment

Research based approach Abstract writing Scientific Poster making	Market Survey Data analysis
Debate Class discussions	Case studies Monologues
Model making Prototypes and working models	Infographics Animation Video presentation
Field trips Report writing	Skit Role play
Quiz based assessment	Audio-visual tools Presentation

Workshops and Seminars



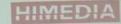


DEPARTMENT OF BIOTECHNOLOGY

JAI HIND COLLEGE - AUTONOMOUS in collaboration with HIMEDIA
PRESENTS

Under the age is of RUSA

IMMUNODIAGNOSTICS USING ELISA





AUTONOMOUS

DEPARTMENTOF BIOTECHNOLOGY
PRESENTS

TWO DAYS HANDS ON WORKSHOP ON IMMUNODIAGNOSTICS USING ELISA IN COLLABORATION WITH HIMEDIA

5/25/2020

A RUSA INITIATIVE



What is ELISA?

Workshop- December 2019 Immunodiagnostics using ELISA



Workshop 2019-20 Nutrition, Health and Wellness

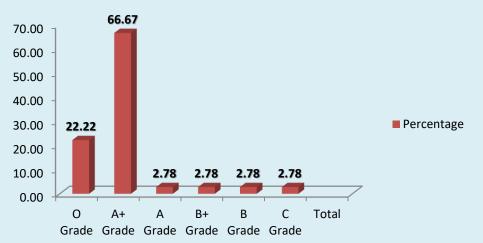


Activities of the Department

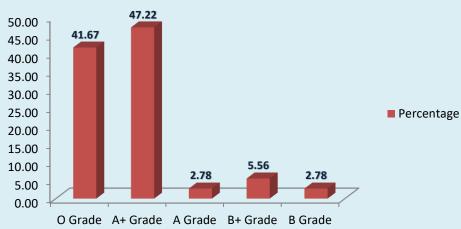
ACADEMIC	COCURRICULAR	EXTRACURRICULAR
• WORKSHOPS	• INTERNSHIPS	• GENACES
• RESEARCH PROJECTS	 XPLORE (Annual 	(Intercollegiate
• SEMINARS	science exhibition)	Departmental festival)
• BIODEBATES	 INVITED GUEST 	
 BIOEXPRESSIONS 	SPEAKERS	
• PRESENTATIONS	 ALUMNI TALK AND 	
 FLIM MAKING AND 	INTERACTION	
SCREENING	• GROUP	
• ENTREPRENEURIAL	DISCUSSIONS	
DEVELOPMENT	• VISITS	
 RESEARCH PAPER/ 	(Research institutes	
POSTER	and Industry)	
PRESENTATION		

Glimpses of Biotech Results

Semester I Results 2018-19

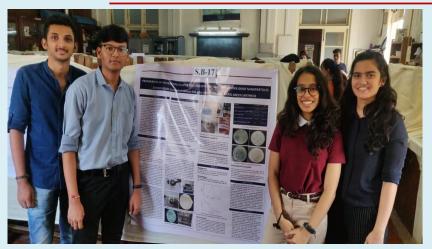


Semester II Results 2018-19



STUDENT ACHIEVEMENTS –X'PLORE Research meet 2020

ALL THE SY LEVEL PRIZES WON BY BIOTECHNOLOGY STUDENTS



SY First Prize





SY Second Prize



SY Third Prize 5/25/2020

FY First Prize

Internships

- Bhatia hospital
- Bombay hospital
- NMIMS School of Biological Sciences
- Jaslok Hospital & Research Center
- Haffkins Institute
- C B Patel Research centre

- NCBS Bangalore
- KEM Hospital
- ACTREC
- P.H.Medical
- Biocon, Bangalore
- Nature Magazine,London

STUDENT ACHIEVEMENTS



Three students of SY Biotechnology won second prize at the NATIONAL LEVEL Microbiolympiad held at the Government Institute of Science, Aurangabad, on 15th February, 2020.

Genaces - Biotech Department Festival



- Annual
- Only Science festival offered by Jai Hind College
- Intercollegiate
- Most sought after
- Quiz
- Forensics
- Debate
- Meme And more!!

Visits to Research Institutes and Industries

- Biocon: Bangalore
- Wockhardt : Aurangabad
- NCBS : Bangalore
- CCMB: Hyderabad
- NDDB: Anand, Gujarat
- Amul Anand
- NCCS- Pune
- Serum Institue of India Pune
- ICGEB-Delhi
- IIT, Delhi
- National Institute of Immunology:
 Delhi
- National institute of Ocenography, Panaji : Goa
- CPRI-Shimla
- NBPGR-Shimla

- Mushroom Factory and Medicine factory, Baddi: H.P
- Tulip Group of Companies: Goa
- Coca Cola: Goa
- UB Group: Goa
- Institute for Genetics : Hyderabad
- Mother Dairy: Hyderabad
- United Spirits: Hyderabad
- Sula Vineyards : Nashik
- ACTREC : Navi Mumbai (Annual Open-Day)
- TIFR, Mumbai
- ICT, Mumbai
- NMIMS, Mumbai
- SGNP, Mumbai

Visits to Research Institutes and Industries



The state of the secondary of the second



ICAR, GOA

NIO, GOA

TIFR, MUMBAI





5/25/2020, MUMBAI

DEPARTMENT OF BIOTECHNOLOGY NMIMS, MUMBAI

Alumni Profile

- Research Associate in NYU Medical Centre, New York
- Marketing Manager at Zuventus,
 Department of Oncology
- Ph. Ds and Jobs in USA/ UK/ Australia/ Singapore/ Canada
- Quality assurance/ Quality control
- Regulatory affairs
- Law firms/ IPR
- Manager Marketing Life Cell
- Nature Magazine- Junior editor
- Lecturer in Biotechnology in Colleges of repute
- Project Manager in a reputed
 Pharmaceutical firm
- Manager in Varda Biotech

- Dietetian in India, Canada and UK
- Research Officer in Bharat Serum and Vaccines
- PR Consultant for Genesis Burson Marsteller.
- Ph.D. in Biomedical Sciences,
 University of Toledo
- Medical Underwriter in ICICI Prudential
- Working for CPC Diagnostics
- Manager, Sula wines
- Entrepreneur in diverse fields
- Voice and Accent Trainer In JP Morgan
- Investment Banker in ICICI Bank
- Mol diagnosis at Sir H.N. Reliance Foundation Hospital, Girgaum