

# DEPARTMENT OF BIOTECHNOLOGY

UG - 3 YEARS | PG - 2 YEARS



## Aim of the Course

The Biotechnology program endeavors to empower students by providing them with procedural, conceptual, and propositional levels of knowledge in both basic and advanced life sciences. This is aimed at fulfilling the requirements for skilled professionals sought after by reputable industries and organizations.

## Distinctive aspects of the course

- The curriculum provides in-depth understanding of cutting-edge developments in biotechnology, encompassing a fusion of biological, chemical, physical, and statistical methodologies.
- It fosters a comprehensive educational journey encompassing molecular biology, genomics, proteomics, genetics, microbiology, food technology, and recombinant DNA technology.

## Expertise of the Faculty Members

- Faculty members exhibit proficiency across a range of disciplines, such as genetic engineering, bioinformatics, environmental biotechnology, and bioprocess technology, equipping students with a thorough understanding, practical abilities, and mentorship essential for dynamic career paths within various scientific domains.
- Through their expertise, faculty members exemplify the expansive scope of biotechnology, playing a pivotal role in advancing scientific, medical, and industrial frontiers, thereby preparing students to contribute meaningfully to these diverse fields.

## HIGHER EDUCATION

- Higher studies can be facilitated by international scholarships like DAAD, Commonwealth Masters scholarships and Fulbright-Nehru Master's Fellowships.
- Funded postgraduate and doctoral degree courses can be enrolled in our collaborative universities like
  - Binghamton University, New York
  - Gyeongsang National University, South Korea
  - Institute of Plant Genetics of the Polish Academy of Science, Poland
  - University of Oxford, ETH Zurich
  - Imperial College London
  - The National University of Singapore
  - Peking University

## Placement Opportunities

- Geneticist
- Plant Breeder
- Forensic Science Technician
- Epidemiologist
- Environmental Scientist
- Genetic Counselor
- Food Safety Officers
- Biomedical Scientist
- Quality Control Managers
- Research Analyst

## Career Opportunities

The course facilitates -

- career prospects for students with a keen inclination towards science and technology within R&D domains.
- individualized training opportunities for students to secure roles such as clinical research associates, research scientists, food safety officers, subject matter experts, patent analysts, and associate content editors across diverse freelance sectors.

## Infrastructure

- The labs facilitates access to conduct research using advanced equipment such as PCR thermocyclers, UV-Vis spectrophotometers, HPLCs, and particle size analyzers.
- Library resources include a extensive array of books, journals, and electronic materials, including scientific journals.
- Modern and fully equipped classrooms feature computer projection systems, facilitating both traditional and hybrid teaching approaches for interactive learning experiences.

## Internship

The course offers students the chance to pursue internships at renowned central and state institutions and organizations such as NIIST, CSIR, Kerala.

## Department Association

- Departmental society: Biotech Visionaries Forum, inspiring students to enhance their research and interpersonal skills.
- Industry visits providing hands-on learning experiences and real-world exposure to enrich the learning process.



## Student Achievements

- Students won ISF-TALTransformers 2023 Social Innovation Challenge competition conducted in Bangalore.

## Key Credentials

- Gain practical expertise in advanced molecular techniques, food quality analysis, and computational tools through hands-on experience.
- Enjoy the added advantage of patenting innovations at the graduate level.
- Undertake innovative projects aimed at solving complex scientific challenges.
- Showcase research findings at both national and international conferences.
- Explore opportunities for advanced studies at esteemed national and international institutions and organizations.



Gokulpriya T of M.Sc biotechnology (2021 – 2023) has been placed in Episource, Chennai, with 3.6 LPA through KCW Placement cell



Ramya. P of M.Sc biotechnology (2021 – 2023) has been placed in Southerland Global Services, Coimbatore, with 7 LPA through KCW Placement cell



Puja Paunfase Banduji of M.Sc biotechnology (2021 – 2023) has been placed in Aakash Byjus, Coimbatore, with 7 LPA through KCW Placement cell

## JOB ORIENTED COURSES (JOC)

- Our program provides a job-oriented curriculum in partnership with NABL-accredited food testing laboratories.
- The Job Oriented Course (JOC) is designed to help students align their academic learning with industry requirements, enhancing their practical skills.

