



**Dr. B. Lal Institute  
of Biotechnology**

An Exclusive Biotechnology Institute



— Affiliated to University of Rajasthan



# B.Sc. Biotechnology

Transforming Passion for  
Science into Careers

*Awarded as Excellence in Skill Development by  
The Economic Times, 2024*

# Program Overview

Our B.Sc. Biotechnology program is designed to equip students with the foundational and advanced knowledge required to thrive in the ever-evolving biotechnology industry. The course provides a comprehensive blend of theoretical understanding, practical skills, and ethical perspectives to nurture industry-ready professionals.



# Why pursue a B.Sc. in Biotechnology?

- **Strong Foundation in Sciences:** Comprehensive training in biology, chemistry, and physics.
- **Master Modern Biotechnology Techniques:** Learn genetic engineering, bioprocessing, and molecular biology.
- **Hands-On Laboratory Experience:** Develop practical skills essential for scientific research and industry applications.
- **Critical Thinking & Problem-Solving:** Cultivate analytical skills for interpreting scientific data.
- **Career Preparation:** Prepare for diverse fields like pharmaceuticals, agriculture, medical research, and more.
- **Ethical Perspectives:** Understand the legal, ethical, and social implications of biotechnology.
- **Professional Development:** Enhance communication and collaboration skills for presenting research effectively.
- **Lifelong Learning:** Instill a commitment to continuous learning and professional growth.



# Career Opportunities & Placements



**B.Sc./M.Sc./PhD**



# Course Curriculum

## Semester - I

- Hindi – I
- English – I
- Cell Biology and Genetics
- Microbiology
- Bioprocess Technology

## Semester - II

- Molecular Biology
- Bioinformatics and Biostatistics
- Instrumentation and Biotechniques

## Semester - III

- Plant Biochemistry
- Animal Biochemistry
- Immunology

## Semester - IV

- Plant Physiology
- Animal Physiology
- Molecular Genetics

## Semester - V

- Animal Biotechnology
- Plant Biotechnology
- Scientific Writing and Presentation

## Semester - VI

- Bio-resources and Waste Management
- Recombinant DNA Technology
- Dissertation

## Semester - VII

- Food and Dairy Technology
- Industrial Relations and Entrepreneurship
- Environmental Biotechnology

## Semester - VIII

- Genomics and Proteomics
- Bioethics and IPR
- Industrial Training and Project Report

## VALUE ADDED COURSES

- Research Methodology
- Artificial Intelligence
- Data Analytics
- Medical Diagnostics
- Environmental Sustainability & Waste Management
- Nutrition and Health

## SKILL PROGRAMMES

- Molecular Biology
- Environment Biotechnology
- Medical Biotechnology
- Bioinformatics
- Molecular Diagnostics
- Plant Biotechnology
- Dissertation Programs



## CO-CURRICULAR ACTIVITIES

- Cultural Club
- Sustainability Club
- Sports Club
- Marketing Club
- Photography Club
- Literature Club
- NSS



## SHAPING FUTURE

- Industry Visits & Sessions
- Experts Sessions for Professional Development
- Pre Placement Sessions
- Higher Education & Overseas Education Sessions
- Entrepreneurship Sessions
- Medical Facilities & Insurance
- Guru Shishya Parampara

# The BIBT Advantage

 <p>State of the art lab &amp; instrumentation</p>	 <p>Industry-focused Curriculum &amp; Practical Training</p>	 <p>Experienced Faculty</p>
 <p>Active Placement Cell</p>	 <p>Research-driven organization</p>	 <p>Strong Brand Values and Alumni Network</p>

## OUR TOP RECRUITERS

## OUR COLLABORATIONS


					
					



# About BIBT

Dr. B. Lal Institute of Biotechnology stands as a leading institution in biotechnology, delivering advanced education, cutting-edge research opportunities, and industry-aligned training to prepare students for success in the dynamic biotech industry. Renowned for achieving the highest placement rates in the sector, we are recognized for our world-class infrastructure and sustainable campus that inspire innovation. Our global alumni network of over 2,500 professionals is shaping the future across premier industries and research institutions worldwide. As the academic extension of Dr. B. Lal Clinical Laboratory, a trusted name in healthcare, we are dedicated to nurturing the next generation of scientists, researchers, and innovators. With a strong emphasis on practical learning, interdisciplinary research, and strategic industry collaborations, BIBT drives transformative progress in healthcare, agriculture, and environmental science.



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