

lead the Biotech
Revolution & Explore
Cutting-edge
Innovations with

BIBT!









in Biotechnology and Microbiology

Program Overview

The program aims to produce well-rounded graduates who have the knowledge and skills necessary to contribute to the advancement of biotechnology and related fields. Additionally, the Master's degree can provide students with the skills and experience necessary to pursue leadership positions in the industry or to continue their education with a PhD.



Key Features of Msc Biotechnology



Master Biotech Fundamentals



Specialized Training in genomics, proteomics & bioinformatics



Develop Research Skills experiment, analyze & present



Career-Ready for R&D, pharma, agri & medical tech



Enhance Communication for teamwork & research



Understand Ethics & Regulations in biotech



Commit to Lifelong Learning & Growth

Key Features of Msc MicroBiology



Study Microbial Diversity



Explore Biotech, Medicine & Environment



Master Research & Lab Skills



Prepare for Careers in R&D & Pharma



Enhance Communication & Teamwork

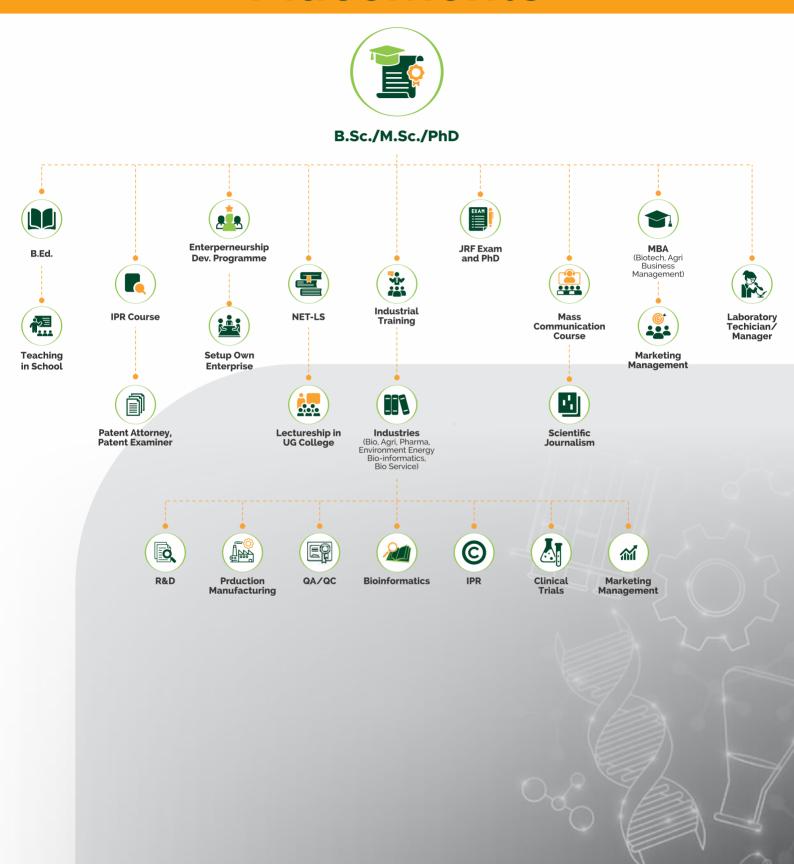


Understand Ethics in Microbiology



Commit to Lifelong Learning

Career Opportunities & Placements



Course Curriculum

M.Sc. Biotechnology Sem I

- 1. Cell Biology
- 2. Genetics
- 3. Microbiology
- 4. Analytical Techniques
- 5. Bioprocess Engineering
- 6. Gen. Biotechnology Lab (Core)
- 7. Lab based on electives (Analytical Techniques)
- 8. Lab based on electives (Bioprocess Engineering)

M.Sc. Biotechnology Sem II

- 1. Molecular Biology
- 2. Virology & Immunology
- 3. Biological Macromolecules & Enzymology
- 4. Bioinformatics & Biostatistics
- 5. Industrial Biotechnology & Biosafety
- 6. Biodiversity, Ecology & Evolution
- 7. General Practical Lab
- 8. Lab based on Elective -Bioinformatics & Biostatistics
- 9. Lab based on elective Industrial Biotechnology & Biosafety
- 10. Lab based on elective -Biodiversity, Ecology & Evolution

M.Sc. Biotechnology

M.Sc. Biotechnology Sem III

- 1. Genetic Engineering
- 2. Animal Biotechnology
- 3. Entrepreneurship & Ethics
- 4. Protein engineering
- 5. Proteomics & Genomics
- 6. Seminar, Scientific Writing and Presentations
- 7. Gen. Practical Lab
- 8. Lab based on elective 1 (Entrepreneurship & Ethics)
- 9. Lab based on elective 2 Protein engineering
- 10. Lab based on elective 3-(Proteomics & Genomics)

M.Sc. Biotechnology Sem IV

- 1. Plant Biotechnology
- 2. IPR and Biosafety
- 3. Virology
- 4. Applied Environmental Biotechnology
- 5. Gen. Practical Lab based on BTH X01, BTH X02, BTH X03 (BTH X11))
- 6. Lab based on elective(Virology)
- 7. Lab based on elective (Applied Environmental Biotechnology)

Course Curriculum

M.Sc. Microbiology Sem I

- 1. General Microbiology
- 2. Techniques in Microbiology
- 3. Microbial Biochemistry
- 4. Molecular Biology
- 5. Bioinstrumentation
- 6. Gen. Microbiology Lab (Core)

M.Sc. Microbiology Sem III

- 1. Virology
- 2. Microbial Genetics
- 3. Computational biology
- 4. Genetic Engineering
- 5. Phycology and mycology
- 6. Gen. Microbiology Lab
- 7. Lab based on electives only

M.Sc. Microbiology

M.Sc. Microbiology Sem II

- 1. Bacteriology
- 2. Microbial Metabolism & Physiology
- 3. Medical Microbiology
- 4. Lab (Based on MBC 801, MBC 802, & MBC 803)
- 5. Food Microbiology
- 6. Environmental Microbiology
- 7. Dairy Microbiology
- 8. Lab (based on electives only)

M.Sc. Microbiology Sem IV

- 1. Immunology
- 2. Microbial Ecology
- 3. Industrial Microbiology
- 4. Genomics and Proteomics
- 5. Agricultural Microbiology
- Clinical and Diagnostic Microbiology
- 7. Lab based on Electives
- Gen. Microbiology Lab based on MBC 1001, MBC 1002, MBC 1003

Holistic Learning

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

BIBT ADVANTAGE



State of the art lab & instrumentation



Industry-focused Curriculum & Practical Training



Experienced Faculty



Active Placement Cell



Research-driven orgainsation



Strong Brand Values and Alumni Network

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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