

2025-26AY

# BACHELOR OF SCIENCE IN BIOTECHNOLOGY



Undergraduate Degree Program at AIMT  
Affiliated to **Gauhati University**  
Approved by Department of Higher Education  
Government of Assam.

**BSc-BT**



Asian Institute of Management  
and Technology®

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Approved By



# Why should *you* opt for BSc BT?

A Bachelor of Science degree in Biotechnology (BSc-BT) is a promising course for students for a number of reasons

## Diverse Career Opportunities

A Biotechnology graduate can explore diverse career options both in government and private sector as

- \* Biochemist
- \* Food Safety Officer
- \* Quality Control Officer /Production in Charge in food, agricultural and pharmaceutical industries
- \* Marketing manager
- \* Biostatisticians
- \* Medical coder
- \* Medical and Clinical lab Technologists and Technicians
- \* Forensic Science Technicians

## Good Salary Prospects

Biotechnology based industries are rapidly expanding in various fields like agriculture, food processing, pharmaceutical, healthcare, bio-medical engineering etc. These industries offer impressive remuneration to graduates well equipped with practical knowledge and technical skills.

## Foundation for Higher Studies

Bachelor degree in Biotechnology lays a foundation for higher studies like a post graduate degree followed by doctorate degree in India as well as in abroad. Many universities and research institutes of India and abroad also offer integrated PhD programmes.

## Skill Development

A Biotechnology undergraduate programme focuses on equipping students with laboratory techniques and good laboratory practices, biochemical characterization, quality assurance, data analysis and interpretation, insilico analysis etc. In future, these technical skills help an individual to thrive in research and industrial set up.

## Entrepreneurial Opportunities

In India, many government agencies like Department of Biotechnology (DBT), Biotechnology Industry Research Assistance Council (BIRAC), and Indian Council of Agricultural Research (ICAR) etc. actively encourages and promote biotechnology based start ups. Graduates with innovative business ideas related to these areas can easily get assistance from these agencies for their entrepreneurial ventures.

## Availability of Online Learning Resources

Online learning resources related to biotechnology is readily available, including databases, information platforms, webinars, certification courses etc.. Students can use these resources to aid their regular courses as well as enhance their skills.

# Key Advantages of BSc Biotechnology at AIMT

## Affiliated To Gauhati University

AIMT is affiliated to Gauhati University. Gauhati University is a well-regarded institution of higher education in Northeast India, known for its academic excellence and a NAAC A+ Grade. Students receive a recognized degree that is respected both nationally and internationally.

At AIMT BSc Biotechnology program Offers a well-rounded and comprehensive curriculum to the students to impart in-dept knowlodge of the subjects and to develop their technical skills.

## Comprehensive Curriculum

## Experienced Faculty

AIMT has Experienced and knowledgeable faculty members who guide students in both theoretical and practical aspects of Biotechnology.

AIMT offers access to state-of-the-art labs and research facilities that allow students to gain hands-on experience with the latest technologies and techniques in the field of Biotechnology.

## Cutting-Edge Research and Facilities

## Industry Oriented Training

AIMT focuses on providing real-world exposure through industry-oriented training, workshops, and internships.

AIMT Offers career counseling, placement support, and helps students prepare for interviews and competitive exams including CUET, GATE-B, other national level entrance examinations ensuring better career prospects.

## Career Support

## CAREER PROSPECTS

- \* Scientist, Research & Development
- \* Pharmaceutical & Healthcare Industry
- \* Agricultural Biotechnologist
- \* Environmental Biotechnologist
- \* Biotech Entrepreneurship
- \* Biotechnology in Forensic Science
- \* Regulatory and Intellectual Property
- \* Biotech Sales & Marketing
- \* Food and Beverage Industry
- \* Biotechnology in Nanotechnology
- \* Bioinformatics and Data Science

## Sectors Where You Can Find Jobs After BSc BT

- Healthcare & Pharmaceuticals
- Agriculture & Agribiotechnology
- Environmental Biotechnology
- Food & Beverages Industry
- Biotech Startups & Research Institutions
- Bioinformatics & Computational Biology
- Forensic Science
- Cosmetics & Personal Care Industry
- Government & Regulatory Bodies
- Veterinary & Animal Biotechnology
- Education & Academia
- Medical Device Industry

## Highlights of the Course

The BSc. in Biotechnology Program offers in-depth knowledge in biological sciences, focusing on applications of technology in sectors like agriculture, food processing, pharmaceutical, health-care, bio-medical engineering, etc.

### Core Subjects

Cell Biology  
Molecular Biology  
Genetic Engineering  
Immunology  
Genetics  
Bioinformatics  
Biochemistry  
Microbiology  
Bioprocess Engineering

### Emerging Technologies

Genetic Engineering  
CRISPR Technology  
Stem Cell Research  
Biopharmaceuticals  
Recombinant Vaccines  
Monoclonal Antibody-based Therapy  
Gene Therapy

### Practical Exposure

- \* Laboratory work in Molecular Biology, Fermentation, Genetic Engineering, etc.
- \* Hands-on training in techniques such as DNA extraction / Plasmid, PCR, ELISA, Gel Electrophoresis, etc.
- \* Seminar, Workshops, Industrial visits and Internships to understand biotechnological applications in real world settings.

“In short, BSc in Biotechnology offers a wide range of career options and educational paths. Whether you're interested in working in research, healthcare, agriculture or entrepreneurship, there's a niche for biotechnologists. You can either start your career directly in industry, pursue further studies, or even contribute to innovations in various sectors. The possibilities are vast, and biotechnology professionals are in demand due to their crucial role in solving some of the world's most pressing challenges.”



# *Infrastructural Facilities* for BSc-BT at AIMT

## State-of-the-art Laboratories



## Audio-visual Classroom



## Library



## placement & higher education



**Nargis Hoque**  
Pursuing PhD at  
Tezpur University  
(Exam cleared:  
GATE XL 2023)



**Khyati Goswami**  
Pursuing PhD at  
Tezpur University  
(Exam cleared:  
GATE XL 2024)



**Shubham Roy Choudhury**  
Pursuing PhD at  
Tezpur University  
(Exam cleared: GATE BT 2021,  
GATE XL 2022, DBT (BET)  
JRF Cat II, SLET NE 2023)



**Himanshu Timsina**  
GAT-B 2004  
All India Rank  
(AIR-80)



**Bidyabrat Goswami**  
CUET(PG) 2024  
Central University  
of  
Himachal



**Samujjal Borah**  
CUET(PG) 2024  
Central University  
of  
Himachal



**Baibhav Raj Barbaruah**  
Pursuing PhD, Graduate  
School of Life Science,  
Hokkaido University, Sapporo,  
Japan International  
Graduate Program (IGP),  
MEXT Japanese  
Government Scholarship



**Prasanta P Hazarika**  
Senior Research Fellow (SRF)  
in Assam agricultural University  
(AAU-CPCRS)



**Jianur Islam**  
MSc Bioinformatics  
Jamia Millia Islamia  
University, 2024

## faculty members



**Dr. Debashree Talukdar**  
HOD, Dept. of Bioscience



**Mr. Dream Kumar Das**  
Asst. Professor, Dept. of Bioscience



**Mrs. Debaleena Kashyap**  
Asst. Professor, Dept. of Bioscience



**Mr. Ashok Sarma**  
Asst. Professor, Dept. of Bioscience



**Dr. Bhriгу Bhuyan**  
Asst. Professor, Dept. of Bioscience



**Mrs. Rupalim Kausik**  
Asst. Professor Dept. of Bioscience



**Dr. Indukalpa Das**  
Asst. Professor, Dept. of Bioscience



**Bishwapriya Chutia**  
Asst. Professor, Dept. of Bioscience



**Mr. Ananta Mahanta**  
Asst. Professor, Dept. of Bioscience

## Some of our Recruiters



# BSc BT CURRICULUM

SEMESTER	SEMESTER	SEMESTER	SEMESTER	SEMESTER	SEMESTER
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Introduction to the living world	<b>Biomolecules</b>	Cell Biology	<b>Biochemistry and Metabolism</b>	Management of Industrial Relation	<b>Industrial Biotechnology</b>
Minor1	<b>Minor2</b>	Plant and Animal Physiology	<b>Introductory Microbiology and Immunology</b>	Indian Financial Markets and Operation	<b>Bioinformatics and Biostatistics</b>
SEC1	<b>SEC2</b>	Minor3	<b>Ecology and Environment</b>	Sales Management	<b>Introduction to Genomics and Proteomics</b>
MDC1	<b>MDC2</b>	SEC3	<b>Biotechniques and Data Analysis</b>	Business Research	<b>Dissertation</b>
VAC1	<b>VAC2</b>	MDC3	<b>Minor4</b>	Methodology Internship	<b>Minor6</b>
AEC1	<b>AEC2</b>	VAC3			

## Eligibility Criteria

10+2 or Equivalent (Science with Biology)

## Fees Structure

1st Semester	₹ 33,000
2nd Semester	₹ 33,000
3rd Semester	₹ 33,000
4th Semester	₹ 33,000
5th Semester	₹ 33,000
6th Semester	₹ 33,000
<b>TOTAL</b>	<b>₹ 1,98,000</b>

Admission Fee	₹ 10000
Application Form	₹ 500
Library Fee	₹ 2000
Lab Fee	₹ 10000

University Registration Fee	As per University
Examination Fee	As per University

## Admission Process

For Admission /Booking your seat, kindly register through the **Samarth Portal** using our Samarth College ID: 278 (Asian Institute of Management and Technology)

OR

For direct admission, visit our campus or call us

**98599 33899**  
**70029 96767**

### Documents Required for Admission

- 10th Marks Card & 10th Admit Card - 2 Copies each
- 12th Marks Card & 12th Admit Card- 2 Copies each
- Caste Certificate (for ST/SC/OBC) - 2 Copies
- Original Migration Certificate  
(For students Outside Assam/Other Board/Council)
- Address Proof: PRC/Driving Licence/Voter ID/Aadhar Card/ Bank Passbook
- Passport Size Photograph – 5 Nos

# Departmental Programs and Events



Free Certificate Course



Seminar



Guest Lecture



Industrial Visit



Quiz Competition



Educational Tour cum Field Visit



Workshop



Poster Presentation