

2025-26AY

BACHELOR OF SCIENCE IN MICROBIOLOGY



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

BSc
Microbio



Asian Institute of Management
and Technology®

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Why should *you* opt for BSc Microbiology ?

A Bachelor of Science degree in Microbiology (BSc-Micro) is a promising course for students for a number of reasons.

Diverse Career Opportunities

A Microbiology graduate can explore diverse career options - both in government and private sectors as

- * Research Scientist (Microbiologist)
- * Food Safety Officer/Food Microbiologist
- * Quality Control Officer /Production in Charge in food, agricultural and pharmaceutical industries
- * Environmental Microbiologist
- * Biotechnologist / Quality Control Analyst
- * Medical coder
- * Medical and Clinical lab Technologists and Technicians
- * Forensic Science Technicians

Good Salary Prospects

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

Skill Development

A Microbiology 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), Indian Council of Agricultural Research (ICAR), etc. actively encourage 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 microbiology are 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 Microbiology 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 Microbiology program offers a well-rounded and comprehensive curriculum to the students to impart in-depth knowledge 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 Microbiology.

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 Microbiology.

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 and other national level entrance examinations ensuring better career prospects.

Career Support

CAREER PROSPECTS

- * Scientist, Research & Development
- * Pharmaceutical & Healthcare Industry
- * Clinical Microbiologist
- * Environmental Biotechnologist
- * Pharmaceutical Scientist
- * Environmental Microbiologist
- * Food Microbiologist
- * Forensic Microbiologist
- * Agricultural Microbiologist
- * Biotechnology in Nanotechnology
- * Bioinformatics and Data Science

Sectors Where You Can Find Jobs After BSc Microbiology

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

“In short, BSc in Microbiology 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.”

Highlights of the Course

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

Core Subjects

General Microbiology
Medical Microbiology
Industrial Microbiology
Immunology
Virology
Genetic Engineering
Environmental Microbiology

Emerging Technologies

Antibiotic Resistance Studies
Biodegradation
Vaccines and Probiotics
Agricultural Microbiology
Fermentation
MCRISPR-Cas Systems
Metagenomics

Practical Exposure

- * Laboratory work focusing on the cultivation, identification and characterization of micro-organisms
- * Microscopy techniques to study microbes
- * Research on microbial genetics and resistance patterns
- * Seminar, Workshops, Industrial visits and Internships to understand microbiological applications in real world settings



Infrastructural Facilities for BSc-Microbiology 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 (JGP),
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 MICROBIOLOGY CURRICULUM

SEMESTER	SEMESTER	SEMESTER	SEMESTER	SEMESTER	SEMESTER
1	2	3	4	5	6
Introduction to Microbiology and Microbial Diversity	Cell Biology	Microbial Biochemistry	Virology	Microbial Genetics	Immunology
Minor1	Minor2	Minor3	Microbial Physiology and Metabolism	Environmental Microbiology	Medical Microbiology
SEC1	SEC2	SEC3	Bacteriology	Food and Dairy Microbiology	Recombinant DNA Technology
MDC1	MDC2	MDC3	Molecular Biology	Industrial Microbiology	Bioinformatics and Biostatistics
VAC1	VAC2	VAC3	Minor4	Minor5	Minor6
AEC1	AEC2			Internship	

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
TOTAL	₹ 1,98,000

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