

Master of Science (M.Sc.) Biotechnology

Admission 2025-26

About the program

Master of Science (M.Sc.) Biotechnology program offered by Department of Biosciences, is a multidisciplinary course designed to provide advanced knowledge in diverse/ key areas of advanced biology, including Genomics, Proteomics, Metabolomics, Biochemistry, Plant Biotechnology, Fermentation Technology, Animal Cell Technology, Biophysics, Genetic Engineering, Immunology, and Infectious Biology. These fields are crucial for applications in industries such as food, medicine, agriculture, and research.

The program emphasizes conceptual understanding in cutting-edge areas of modern science and technology, along with formal training in applied sciences to meet the growing demand for skilled biotechnologists. Program exposes students to both fundamental and applied aspects of biotechnology, enabling them to choose between academic and industry careers. The course curriculum integrates core subjects with emerging technologies, while extensive laboratory exercise/training form a significant component, ensuring that students develop strong technical skills. Graduates are well-prepared to address/tackle contemporary challenges in research and industry with confidence and competence.



More about the Department
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About the Department of Biosciences

- DST-FIST sponsored.
- Expert Faculty & Teaching facilities with outcome-based learning.
- State-of-the-art research labs, industry visits and hands-on training.
- Placement support, PhD recruitment, and research collaborations with reputed institutes.
- Seminars, guest lectures, student research projects, participation in technical and cultural events.
- Student research projects and publication.
- Extracurricular Activities: Involvement in Biotech & Enviro Clubs for holistic growth.

Lab Facilities

- Microbiology Lab
- Biochemistry and Molecular biology Lab
- Plant Tissue Culture Lab
- Cancer Research Lab
- Microbial Technology & Environmental Biotechnology Lab
- Structural Biology Lab

Higher Studies

Name of the Students	Programme
Disha Agarwal	Pursuing PhD at Department of Translational and Regenerative medicine PGIMER Chandigarh
Yamini Agrawal	Junior Scientist at Axio Biosolutions
Devyani Charan	Pursuing PhD at Vellore Institute of Technology, Vellore.
Amoolya	Pursuing Executive Post Graduation in Healthcare Management at Goa Institute of Management
Ruchika	Junior Research Fellow at Regional Center for Biotechnology Faridabad in Structural Biology and Translation Regulation Lab
Renuka Sharma	Cleared Two Pre-exams - CET graduation and CET Senior Level

Career Opportunities

- Internship opportunities with various industries and government recognized institutions
- Candidate may pursue higher studies like PhD Biotechnology (NET) in India and Abroad.
- Government opportunities like Scientist B, Junior Research Fellow, Project Assistant, Technical Officer, Assistant Professor in University/Organization etc.
- Govt and Corporate Opportunities are Research & Development, Regulatory Affairs Officer, Quality Controller, Regional Manager, Production & Quality Control in Pharmaceutical, Biotech, Agriculture, Food Companies etc.

Fee structure

Tuition fee (p.a.)	Registration Fee (One Time)	Caution Deposit Refundable (One Time)	Total Course Fees (including Caution Deposit)
1,09,000	10,000	10,000	2,38,000

(International - USD, Total Fee for 2 Years - 5,600)

Eligibility

Candidate must have passed BSc degree from recognized University / Institution or equivalent qualification as recognized by Association of Indian Universities (AIU) or other competent body with minimum of 50% marks in aggregate.

Scholarships

- Tuition Fee Concession for MUJ Graduate
- Scholarships for Local Region Students
- Merit Scholarships

Curriculum (Only Scheme)

FIRST SEMESTER						SECOND SEMESTER					
Code	Course Name	L	T	P	C	Code	Course Name	L	T	P	C
BIO6101	Cell & Molecular Biology	3	1	0	4	BIO6201	Advanced Biochemistry	3	1	0	4
BIO6102	Fundamental & Applied Microbiology	3	1	0	4	BIO6202	Plant Biotechnology	3	1	0	4
BIO6103	Bio-analytical Techniques	3	1	0	4	BIO6203	Genetic Engineering	3	1	0	4
BIO6170	Seminar	0	0	0	1	MAS6205	Research Methodology and Technical Writing	2	1	0	3
BIO6130	Biotechnology Lab-I	0	0	6	2	BIO6230	Biotechnology Lab-III	0	0	6	2
BIO6131	Biotechnology Lab-II	0	0	6	2	BIO6231	Biotechnology Lab-IV	0	0	6	2
						XXXXXXX	OPEN Elective/MOOC	3	0	0	3
		9	3	12	17			14	4	2	22
Total Contact Hours (L + T + P)		24				Total Contact Hours (L + T + P)+OE		30			
THIRD SEMESTER						FOURTH SEMESTER					
Code	Course Name	L	T	P	C	Code	Course Name	L	T	P	C
BIO7101	Advanced Genetics	2	1	0	3	BIO7270	Project Dissertation	0	0	0	16
BIO7102	Bioprocess Engineering	3	1	0	4						
BIO7103	Structural Biology & Bioinformatics	2	1	0	3						
MAS7117	Statistics for Biologists	2	1	0	3						
BIO7130	Biotechnology Lab-V	0	0	6	2						
BIO7131	Biotechnology Lab-VI	0	0	6	2						
XXXXXXX	DSE I	3	1	0	4						
XXXXXXX	DSE II	3	1	0	4						
		15	6	12	25			0	0	0	16
Total Contact Hours (L + T + P)		33						16			

Admission Process



Application form initiated through our website

admissions.jaipur.manipal.edu



Our counsellors will guide candidates through the admission process, which is as per regulatory requirements.



Please visit the FAQ section on our website to know more about the admission process.

Scholarships



Hostel Details



Admission Team Contact Details



For Admission
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MANIPAL UNIVERSITY
JAIPUR
(University Under Section 2(f) of the UGC Act)

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