



MANIPAL UNIVERSITY  
JAIPUR

**nirf**  
Rankings 2025  
University: 58 | Overall: 98  
Engineering: 58 | Management: 81  
Architecture: 21 | Law: 32

ACCREDITED WITH GRADE  
**A+**  
NAAC  
NAAC A+ Grade  
with 3.28 Score

# Bachelor of Science (B.Sc.) (Honours/Honours with Research)

## Microbiology

### Admission 2026-27

#### About the program

B.Sc. Microbiology (Honours & Honours with Research) program offered by Department of Biosciences, is a four-year under graduate program, offered by Department of Biosciences aligned with the National Education Policy (NEP) 2020. Interdisciplinary course designed to provide students with in-depth scientific knowledge and industry-relevant skills in microbial technology. It explores the biology of microbes and their role in human life, food and plants, offering both fundamental and applied knowledge to bridge the gap between industry and academia. Students gain expertise in microbial mechanisms, ecology, interactions, and applications, preparing them for careers in fields ranging from food and beverage to pharmaceuticals. Microbiology is a rapidly evolving and one of the most exciting area of science with vast career opportunities.



More about the Program  
Scan the QR Code

### 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, 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.
- Syllabus according to CBCS.

### Prominent Recruiters

- Nestle, Britannia, ITC, Amul, Sun Pharma, Cipla, Monsanto (Bayer), Syngenta, DuPont, Mahyco, Nuziveedu Seeds, AIIMS, ICMR, CSIR, NIB, WHO, CDC
- Coca-Cola, PepsiCo, FSSAI, FDA, BIS, APEDA, CFTRI, NIFTEM, IARI, Supermarkets, Food Startups, Pfizer, Biocon, Dr. Reddy's, Novartis, GSK,

### Lab Facilities

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

### National and International Collaborations

Name of the organisation	Nature of MoU
CSIRO	Australian Government Agency
MoU-3B BlackBio Biotech India Limited	Industry
Sri Karan Narendra Agriculture University, Jobner Rajasthan	Academic
NIT Warangal	Academic

### Higher Studies/Placements

Name of the Students	Name of institution joined	Name of programme
Sylvia Parveen	Banaras Hindu University, India	MSc- Molecular and Human Genetics
Santanu Pal	NMIMS Deemed University	MBA- Pharmaceutical Management
Shaurya Singh	Macquarie University, Australia	Msc- Biotechnology
Sunidhi	Duke University ,US	Master of Engineering in Biomedical Engineering
Vani Bali	University of Glasgow, UK	Msc- Biotechnology
Archita Vyas	VIT, Vellore	M.Sc. Microbiology
Nandini Tungaria	MIT-WPU	M.Sc. Microbiology
Sahil	GJUST, Haryana, India	M.Sc. Microbiology
Mohd Aman	Jamia Millia Islamia	M.Sc. Microbiology
Gauri Singal	Jaypee Institute of Information Technology	M.Sc. Microbiology
Samrat Banerjee	MAHE	M.Sc. Biotherapeutics
Divya	Pune University	M.Sc. Bioinformatics

### Lab Facilities

- Microbiology Lab
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### Fee Structure

Tuition fee (p.a.)	Registration Fee (One Time)	Caution Deposit Refundable (One Time)	Total Course Fees per annum (including Caution Deposit)
1,27,000	10,000	10,000	1,47,000

(International - USD, Total Fee - 2,950/annum)

### Career Opportunities

- Govt. Jobs
- Clinical Research
- Research and Development Jobs
- Quality Control Jobs
- Quality Assurance Jobs
- Marketing Jobs
- Food and Dairy Industry
- Paper and Pulp Industry
- Public Sector Units

### Scholarships

- TMA Pai Merit Scholarships
- Rajasthan Merit Scholarships
- Financial Assistance for Sibling(s)
- Scholarship for “Differently-abled” Students
- Scholarships for wards of Martyrs of Defence Personnel / Para Military Forces
- Scholarships for the wards of Single Mother & Orphan Child
- Scholarships for Sports Persons
- Scholarships for students of Higher Semesters

### Eligibility

Passed in 12th Std / Equivalent exam from a recognized board with the minimum aggregate of 60% in 10+2( with Physics/ Chemistry / Biology).



**Curriculum**

FIRST SEMESTER						SECOND SEMESTER					
Code	Course Name	L	T	P	C	Code	Course Name	L	T	P	C
BIO1107	Cell Biology	2	1	2	4	BIO1290	Fundamentals of Microbiology	2	1	2	4
BIO1120	Diversity of Life	2	1	2	4	BIO1207	Fundamentals of Biotechnology	2	1	2	4
CHY1101	Atomic Structure, Bonding, and Periodicity	2	1	2	4	CHY1201	States of Matter and Molecular Properties	2	1	2	4
MAS1122	Fundamentals of Computer	2	0	0	2	PHY1240	Academic Writing	2	0	0	2
LN1106	Communicative English	2	0	0	2	MAS1221	Logical Reasoning and Competitive Aptitude	2	0	0	2
CHY1003	Environmental Science	2	0	0	2	MAS1222	Introduction to Python Programming	2	0	0	2
PES1030	Yoga and Wellness	2	0	0	2	MAS1223	Ancient Indian Knowledge System	2	0	0	2

THIRD SEMESTER						FOURTH SEMESTER					
Code	Course Name	L	T	P	C	Code	Course Name	L	T	P	C
BIO2115	Bacteriology	2	1	2	4	BIO2220	Bioanalytical methods	2	1	2	4
BIO2108	Molecular Biology	2	1	2	4	BIO2215	Food & Dairy Microbiology	2	1	2	4
BIO2107	Biochemistry	2	1	2	4	BIO2216	Virology	2	1	2	4
CHY2170	Scientific Writing and Seminar	2	0	0	2	BIO2217	Microbial Genetics	2	1	2	4
CHY2121	General Chemistry	2	1	0	3	BIO2270	Summer Internship	0	0	2	2
PHY2140	Basic Instrumentation Skills	2	1	0	3	PHY2240	Translation and Linguistic Competence	2	0	0	2

## Curriculum

FIFTH SEMESTER						SIXTH SEMESTER					
						L	T	P	C		
BIO3115	Environmental Microbiology	2	1	2	4	BIO3215	Medical Microbiology	2	1	2	4
BIO3116	Industrial Microbiology	2	1	2	4	BIO3216	Agricultural and Soil Microbiology	2	1	2	4
BIO3117	Computational Biology	2	1	2	4	BIO3217	Nano Microbiology	2	1	2	4
BIO3120	Recombinant DNA Technology and Forensics	2	1	2	4	BIO3218	Mycology	2	1	2	4
BIO3190	GLP and Biosafety	2	1	2	4	BIO3290	Minor Project-I	4	0	0	4

SEVENTH SEMESTER						EIGHTH SEMESTER					
						L	T	P	C		
BIO4120	Omics Technology	2	1	2	4	BIO4270	Major Project/Internship	0	0	12	12
BIO4107	Biostatistics	2	1	2	4	BIO4220	Probiotics and Nutraceuticals	2	1	2	4
BIO4121	Bioremediation and Bioenergy	2	1	2	4	BIO4271	Seminar	3	1	0	4
BIO4122	Model Systems in Biological Research	2	1	2	4	BIO4280	Bioprocess Technology	2	1	2	4
BIO4155	Minor Project-II	4	0	0	4	BIO4281	Waste Management	2	1	2	4
						BIO4282	Microbial Diagnostics	2	1	2	4



## Admission Process



Application form initiated through our website  
[admissions.jaipur.manipal.edu](https://admissions.jaipur.manipal.edu)



Applicants must submit a completed application form with relevant documents within the due date.



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.

## Hostel Details



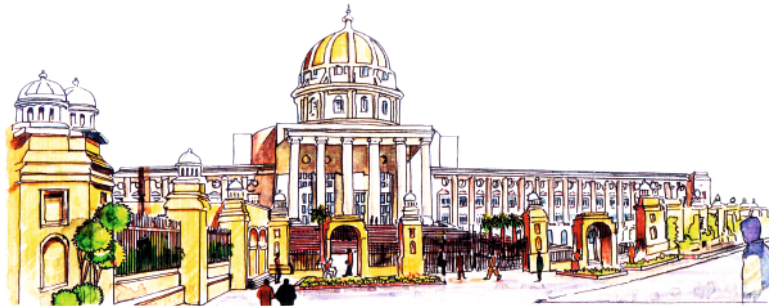
[goodhostspaces.com](https://goodhostspaces.com) ☎ **08069122800**  
[info.jaipur@goodhostspaces.com](mailto:info.jaipur@goodhostspaces.com)



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

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