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JAIPUR

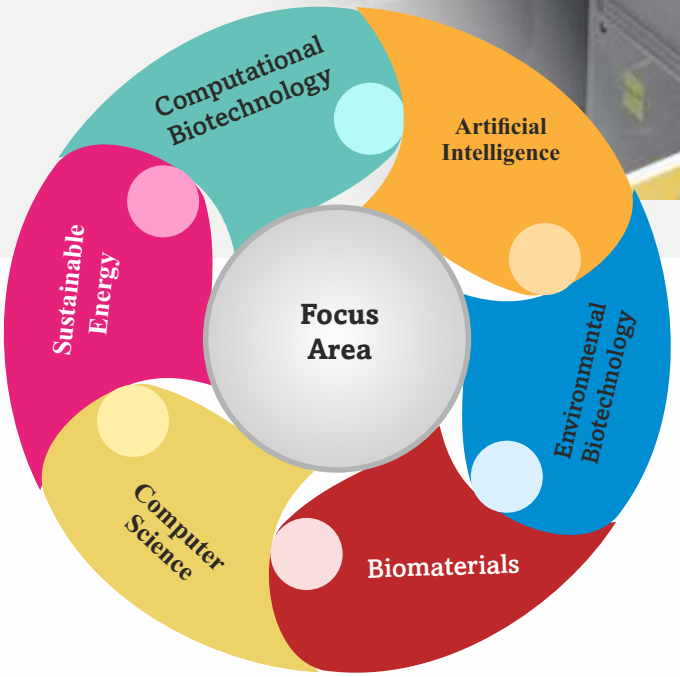


B.Tech.
Biotechnology

Admission 2024-25
Biotechnology

- To serve society with better quality and safe products, the focus is now on manufacturing and developing green materials and technologies.
- Demand for Biotechnology Engineers in industries is increasing every year. With a strong foundation in chemical and biological sciences and bioprocess engineering, these engineers have better skills to tackle the problems.
- The engineering graduate program B. Tech. (Biotechnology) aims to prepare students for industry and research in emerging areas.
- Opportunities in chemical, biochemical, pharmaceuticals, cosmetics, brewery, biomaterials, food manufacturing, water treatment, biofuels and biorefineries, and enzyme processing industries.
- Industry ready curriculum
- Well established labs with upgraded tools
- MoU with renowned Universities and Industries
- Technical Clubs and Student Chapters
- Exposure to industries through periodical industrial visits
- IAESTE student exchange program provides international internship to the students

Design your own
Degree and Career



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Key Highlights of the Program

- Introduce a prominent B. Tech. program in Biotechnology as per AICTE and UGC model curriculum.
- The curriculum is well designed and includes courses and laboratories relevant for bioprocess industries related to biotechnology, bioprocess and biochemical, enzyme technology, and food processing.
- Well-equipped laboratories for hands on learning experience
- IAESTE technical training program in which students visit countries like USA, Germany, Poland, Turkey, Spain, Denmark etc

Career Opportunities

Biotechnology engineers have career opportunities in sectors related to:

- Biotechnology
- Pharmaceuticals
- Healthcare research
- Chemical and biochemical industries
- Research and development
- Quality Assurance and regulatory affairs
- Government policymakers
- Business and project management
- Microbiology
- Process development
- Food safety
- Intellectual Property Rights

Unique Research and Lab Facilities





National and International Collaborations

International Collaborations with Institutes & Universities : 100+
National Collaborations with Institutes & Universities : 100+

Prominent Recruiters

- Biocon
- Bharat Biotech
- Reliance life sciences
- Zydus Cadila
- Mahyco
- Jubiliant
- Sun agro biosystems
- DuPont Danisco
- BASF
- Novozymes
- Dabur
- Parle Products
- Cadbury
- PepsiCo
- Lays
- Godrej
- Colgate and many more

The MUJ EDGE (Why MUJ)

- NAAC A+, AICTE, and UGC Accredited Institution
- Enhances Interdisciplinary Research
- Highly qualified and experienced faculty members
- State-in-Art Laboratories
- PRAISE incentive policy for research publication
- Excellent Infrastructure
- Scholarship for Students
- Student Travel Grant for International Internships
- Industry and International exposure
- Experiential learning through projects

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Eligibility

The candidates need to meet any one of the following criteria:

- **MET 2024 Rank Holder**

The candidate must have passed 10+2 or A Level or IB or American 12th grade or equivalent examination from a recognized board with Physics, Chemistry and English as Compulsory subjects, along with any one ofBiology, Biotechnology or Mathematics as an optional subject, with minimum of 50% marks in Physics, Chemistry and the optional subject, put together.

- **Direct admission**

Direct admission is possible if seats are available after MET.
Candidates need to meet one of the following criteria:
Candidates have a JEE rank and qualified for JEE Advanced in that year Based on candidate's SAT score.
MET 2024 rank holders, who could not come for counselling.
All Students with Physics and Chemistry as a compulsory subjects along with any one of Biology, Biotechnology or Mathematics as an. optional subject, with minimum of 50% marks in Physics, Chemistry and the optional subject, put together.who have 60% or equivalent (in PCX subjects) in their 12th std. (where X could be Mathematics/Computers Science/ Biotechnology/Biology /Statistics/ Engineering Drawing).



Scholarships

- TMA Pai Engineering Scholarships
- Scholarships for Lateral Entry (B. Tech.)
- 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





jaipur.manipal.edu
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LABORATORIES

Controlled environment is provided to students to conduct experiments and tests on biological materials such as cells, proteins and DNA.

- **Process Control Lab –** Provide hands-on training on control of various industrial processes using different control strategies.
- **Transport Phenomena Lab -** A practical training is imparted on fluid flow, heat, and mass transfer operations to gain better insights of the process.
- **Biomaterials Laboratory -** Promotes the biomaterials research. Properties and behavior of different biomaterials such as biocompatibility, degradation rates, and mechanical strengths are explored.
- **Cancer Biology Laboratory -** Dedicated for research on cancer, development of healthy tissues for cancer treatment.
- **Tissue Engineering Laboratory -** Promotes research on developing techniques and materials to grow and regenerate tissues and organs in laboratory.
- **Bioreaction Engineering Lab -** Students are trained to study the development of biological reactions and processes for a wide range of applications in a controlled environment.
- **MEMS Laboratory -** This lab specializes in design, fabrication, and testing of micro and nanoscale devices that integrate mechanical, electrical, and optical components.
- **Advanced Computer -** aided design and simulation Laboratory - High-performance computing systems to perform complex modeling, simulation and analysis tasks in various fields such as engineering, physics, chemistry and biology.
- **Microbiology and Biochemistry Lab** - Microbiology lab specializes in the study of microorganisms, including bacteria, viruses, fungi etc with common techniques such as PCR, sequencing, microscopy and immunobiological assays. Biochemistry lab focuses on study and functions of biomolecules with common techniques such as chromatography, electrophoresis, spectroscopy, and enzymatic assays.
- **Waste to Resources Lab –** Research lab to convert waste biomass and plastic waste into value added products. Waste materials could be of different origins such as municipal solid wastes, biomass or industrial waste. The techniques for conversion to energy could be pyrolysis, gasification or anerobic digestion.



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Admission Process

Application form initiated through our website
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 **08069122800**
info.jaipur@goodhostspaces.com

Please visit
https://jaipur.manipal.edu/muj/life-at-muj/hostel-facility.html

Counsellor Contact Details

Ms Anita Sharma
8306006852

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(University Under Section 2(f) of the UGC Act)

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