



ST. XAVIER'S COLLEGE (Empowered Autonomous Institution), MUMBAI

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

ENTRANCE EXAMINATION AND ADMISSION NOTIFICATION

MSC BIOTECHNOLOGY

Biotechnology, one of the leading industries of the decade, converges scientific ingenuity and entrepreneurial spirit, offering numerous opportunities to switch the healthcare, agriculture, and sustainable solutions landscape for generations to come. In the present knowledge driven economy, there is a constant need for innovating young professionals in the areas of Biopharmaceutics, Bio-IT services including Bioinformatics, Agribiotech, and Bioprocess industries. To cater to this increasing need for trained professionals, St. Xavier's College began the Two- year MSc- Biotechnology programme from the academic year 2007-08. Under the umbrella of academic autonomy and NEP 2020 implementation, the programme offers extensive training in cutting edge technology to tackle global needs in Biotechnology Research, Product development and Bioentrepreneurship, thus enabling students to prepare for careers both in India and internationally.

Highlights of the MSc- Biotechnology (2 Years- 4 Semesters) Programme :

- ✓ Dynamic and Interdisciplinary curriculum and Holistic training to meet Industry 4.0 skill sets of technical abilities in Biotechnology, Communication skills, Critical thinking, Problem Solving and Resource Management.
- ✓ Qualified and Well-Trained Faculty with expertise in fundamentals and applications of Molecular Biotechnology, Bioinformatics, Mammalian Cell technology, Genomics and Proteomics.
- ✓ Well Equipped Laboratory and Instrumentation Facility (Molecular Biology, Animal Cell Culture, Bioinformatics, MD Simulations and NGS analysis)
- ✓ Research driven department with focus on projects in Bioinformatics, Mammalian Cell Culture, Cancer Genomics, Natural Products Bioprospecting, Bioprocess technology and Environment Biotechnology.

Programme Structure:

Semester I and Semester II Knowledgebase Strengthening & Skill Development	Semester III Application of Concepts & Analysis	Semester IV Research and Development Skills enhancement
<ul style="list-style-type: none">• Biomolecules• Molecular Biology• Molecular Immunology• Techniques in Biotechnology	<ul style="list-style-type: none">• Bioprocess technology.• Pharmaceutical Biotechnology	<ul style="list-style-type: none">• 6 months Dissertation at reputed Institutes (IITB, TIFR, BARC, ACTREC, ICMR-



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<ul style="list-style-type: none"> • Bioinformatics & Computational Biology • Genetic Engineering • Functional Genomics • Animal Cell Technology • Proteomics and Advanced Analytical Techniques • Nanobiotechnology • Plant Biotechnology • Molecular Oncology • Quality Management Systems in Biotechnology • Biostatistics and Scientific Comm Skills 	<ul style="list-style-type: none"> • Biotechnology Enterprise and IPR • Clinical Drug Development • Immunoinformatics & Application of AI in Biotechnology • Research Project based on applications of Biotechnology. 	<p>NIRRCH, NIIH, CDRI, IGIB-Delhi, CIFE, IISER-Pune, NCCS, NCL, ICGEB -Delhi, and others)</p>
Credits: 44	Credits: 22	Credits: 22

Details of the Programme Curriculum and fees can be checked at <https://sites.google.com/xaviers.edu/biotechnology>

Career Scope:

Higher Education: PhD, MBA, LLB-IPR specialization

Research & Development: Fundamental and Applied Biotechnology, Biopharmaceutics, Bioinformatics, Agri and Food Biotech, Bioprocess industries.

Application Specialist: Medical Diagnostics, Environment biotechnology, Agri and Food Biotech, Bioprocess industries, Bio-IT services, Clinical Research, Biotech-IPR, Geneticists, Patent Analysts, Biotech -IPR specialists, Bioinformatics Data analysts (Genomics and Proteomics), Biocurators, Drug Discovery and Development,

Scientific Communication: Content Creation, Science Communicators, Scientific Editors, Animators, Illustrators.

St. Xavier's College (Autonomous), Mumbai invites applications for admission to the **MSc Biotechnology Programme.**

- ❖ **ELIGIBILITY:** BSc in Biological sciences (Biotechnology/Biochemistry/Botany/Life Science/ Microbiology/ Zoology) with Chemistry upto SYBSc level or BSc in Chemistry with Biology courses upto SYBSc level.



❖ **ADMISSION TO MSc PROGRAMME IN BIOTECHNOLOGY**

- The admissions for M.Sc. Biotechnology (2 years) programme in the Post Graduate Department of Biotechnology, St. Xavier's College (Autonomous), Mumbai will be through an Entrance Examination.
- **ADMISSION CRITERIA:** The admission for MSc Biotechnology programme in St. Xavier's College (Autonomous), Mumbai will be based on the merit list derived using the following weightage:
 - a. Score obtained in the entrance examination -**70% weightage.**
 - b. Qualifying BSc examination percentage (SEMESTER 5 and 6/ SEMESTER 5) - **30% weightage**
 - c. Please note that provisional admission will be given based on Sem V marks subject to the student passing Sem VI and handing in proof when released by the University.

❖ **DETAILS OF THE ENTRANCE EXAMINATION:**

- a. The Question Paper for both the tests will be in English only.
- b. There is NO NEGATIVE marking.
- c. The Examination will be conducted as a Computer Based Test (CBT) at various centers.
- d. Individual candidates' entrance exam scores are not released. Only the merit lists are uploaded to the college website.
- e. The format of the entrance exam will comprise of Multiple-Choice Questions in the following areas as given below.

Sections (Graduate / Bachelor's level)	Question Type	No of Questions	Marks
Basic Biology, Cell Biology, Immunology, Microbiology, Biochemistry, Molecular Biology, Bioprocess Technology, Bioinformatics, and other allied areas	MCQ	60	60
Numerical Ability and General aptitude testing (Based on 10+2 concepts in Physics and Chemistry)	MCQ	15	15
Total		75	75



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Please Note: The entrance examination is applicable **ONLY** to those students applying for the master's degree (M. Sc in Biotechnology) in the Post-Graduate Department of Biotechnology, St. Xavier's College (Autonomous), Mumbai.

❖ **SCHEDULE:**

- The Entrance Examination will be held on the following dates:
 - All over India: 13th and 14th of June 2024.
- The Schedule will remain unaltered even if any of the above dates are declared as Public Holidays.
- Test Duration: 1.5 hours (90 minutes)

❖ **LOCATIONS FOR ENTRANCE TEST 2024:**

- The test will be held across 8 cities in the Country. The Cities are as follows: Mumbai, Pune, Bangalore, Cochin, Kolkata, Guwahati, Delhi, Jaipur.
- Applicants will be able to download the hall ticket on the 10th of June 2024.
- Applicants can select one Centre for the exam in the application form. The exact address for the venue of the exam will be mentioned in the Hall ticket.
- Please note that if a Centre has less than the required quantum of students for the exam, applicants will be shifted to the nearest Centre from the one selected earlier.

❖ **NUMBER OF SEATS: 30**

- **Allocation of seats:** St. Xavier's College is a Christian Minority College, administered under the Provisions of the Indian Constitution. As per the Judgement dated 12th October 2017 of the Honorable Bombay High Court vide Writ Petition No.1726 of 2001, Minority Colleges do not need to set aside seats for Backward Classes. This was reiterated by the University of Mumbai Circular (No. Aff. / Recog.I / Admission (2018-19) / 10 / of 2018) dated 30th May 2018. Accordingly, the allocation of seats is as follows:

Category	Percentage of seats reserved	Number of seats out of 30
Management Quota	15%	5
		Number of seats out of 25
Christian Minority	50%	12
General	42%	11



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Persons with disability	5%	1
Special**	3%	1

- ** The Special category is for the wards of transferred State / Central Government and Private Sector employees, Defence Personnel, Ex-Servicemen, Freedom Fighters; for students who have met with an accident and for award winners at the District / State / National Level in Sports or Cultural activities.
- # Seats for international students are supernumerary. **Applications for those seats must be done through the University of Mumbai website (www.mu.ac.in). Please email us and inform us if you are applying in the international student category.** Students that fall under this category include - Foreign students (FR/FS), Persons of Indian origin (PIO), Overseas Citizens of India (OCI), SAARC students, Non-Resident Indians (NRI). The definitions of these categories are available on the Mumbai University website. Students who have done their undergraduate degrees abroad also fall into this category. If you are unsure, please contact us.
- **Note:** You should not apply to the college or fill the college application form. The number of these students, who are sent to the College directly by the University, are over and above the sanctioned seats. Kindly refer to this circular for further details: [https://xaviers.edu/files/International%20Admission%20Circular%20\(2022\)%20\(1\)_230420_172945.pdf](https://xaviers.edu/files/International%20Admission%20Circular%20(2022)%20(1)_230420_172945.pdf)

❖ APPLICATION PROCEDURE:

- Candidates can apply online by logging on to the Homepage of St. Xavier's College (Autonomous), Mumbai: www.xaviers.ac Click on the link provided to fill in the online Application Form.
- The online application portal will be open from **6:00 p.m. (IST) on 9th May 2024 to 5th June 2024 (midnight).**
- Online Application Form and Entrance Test Fee: **Rs. 1500/-**
- Candidates are required to make an online payment through the provided payment portal only. **NOTE: Filling of the Application Form and the Payment for the entrance exam will be only through the online portal of the college.**
- Application fees are non-refundable.



❖ **INSTRUCTIONS FOR APPLYING ONLINE:**

- Log on to www.xaviers.ac (Between 9th May and 5th June 2024).
- Follow instructions given on the website for filling the online Application Form.
 - The quota in which the candidate is applying for a seat, in case of minority/special quota, it is mandatory to upload a clear and legible scanned copy of proof e.g., Baptism certificate for Catholic minority or document for special category as required.
 - Semester V or V and VI marks must be entered. It is mandatory to upload a clear and legible scanned copy of the Semester V marksheet as proof.
- Once a payment has been officially received, the candidate will receive a confirmation email, informing him / her about the same.
- Please note that you must enter **all the subjects** and the **corresponding marks** in the online application form. The best 4 or 5 subjects will not be accepted.
- Last date for receipt of Application Form is the 5th of June 2024 (midnight). Any application received after this date will not be accepted.
- You are encouraged to take a printout of the form once the payment is done and the form is completed
- **Admit Card:**
 - Candidates will be able to download the admit card from 10th June 2024.
 - The Admit Card will have Instructions printed on it for the benefit of the candidates. The Admit Card must be self-attested and retained by the candidate. Please make sure you carry your admit card on the day of exam to the designated Centre.
 - If the Admit Card is not received by 11th June 2024, the candidate should write to the online.admission@xaviers.edu (managed by a third party)

❖ **RESULT ANNOUNCEMENT**

- The Category-wise Final Merit List from all those who qualify for admission through the entrance exam will be announced through the College website within 10 days of the exam.
- The Merit Lists are time-bound as will be mentioned in the Admission Notification on the college website.
- If a candidate in the 1st Merit List fails to complete the admission process within the stipulated date and time as mentioned on the notifications, their candidature stands lapsed. The candidates in the 2nd and subsequent Merit Lists will subsequently be offered admission.



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- Candidates who accept the offer of admission shall pay the necessary fees (as displayed on the College Website or College Notice Board).
- Fees for the entrance test once paid will not be refunded.
- MSc Biotech Programme Fees: Rs 1,20,000/-

For any queries or clarifications, contact: **biotech.dept@xaviers.edu**

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