

ST. XAVIER'S COLLEGE (AUTONOMOUS), KOLKATA

ADMISSION SESSION 2026-2027

M.SC. (5-YEAR INTEGRATED) CURRICULUM FOR BIOTECHNOLOGY AND MULTIMEDIA

St. Xavier's offers a 5-year (10 semester) integrated PG degree program.

There are 7 types of courses in the curriculum:

1. Major

The Major Course is the subject in which the degree will be awarded. The Major provides the student an in-depth study and training in a particular subject. The academic level develops progressively till it reaches advanced levels in the later semesters.

2. Minor

The Minor subjects are generally complementary to the Major subject and are designed to help the student obtain a broader understanding of subjects connected to or beyond the Major course.

3. Multi-Disciplinary (MDS)

Multi-Disciplinary courses are courses from other disciplines. All students are required to take 3 introductory-level courses.

4. Ability Enhancement Courses (AEC)

The AEC includes courses in

- a) Modern Indian Language (Hindi/ Bengali/ Alternative English)
- b) Compulsory English

The emphasis in these courses is on language, communication skills, critical reading, and academic writing skills to enable students to express their ideas and arguments coherently in written form and in discussion and debate.

5. Skill Enhancement Courses (SEC)

Skill Enhancement courses are designed to impart practical skills, hands-on training, soft-skills, etc.

6. Value-Added Courses (VAC)

Value-Added courses include courses in Environmental Science, Indian Knowledge System, Mulya Pravah, Jeevan Kaushal.

7. Internship

Internship is a novel aspect of the program to allow students to obtain experience in industry, research labs, business, community service, learning projects. Details and modalities will be provided once you have joined the program.

In each semester you will study a combination of the above-mentioned courses with each course assigned a specific number of papers, credits. See the table below for the credit structure:

1. CREDIT STRUCTURE FOR BIOTECHNOLOGY

| COURSE | CREDIT PER PAPER | TOTAL NO. OF PAPERS | TOTAL CREDITS |
|---|------------------|---------------------|---------------|
| Major Semesters 1-9 | 4 | 30 | 120 |
| Major Project/Internship Semester 10 | | 1 | 22 |
| Minor | 4 | 8 | 32 |
| Multi- Disciplinary | 3 | 3 | 9 |
| Ability Enhancement | 4 | 2 | 8 |
| Skill Enhancement | 3 | 3 | 9 |
| Value-Added | 2 | 4 | 8 |
| Internship | | | 2* |
| | | | 210 |

*Internship of 2 credits to be completed by Semester 4

CREDIT STRUCTURE FOR MULTIMEDIA

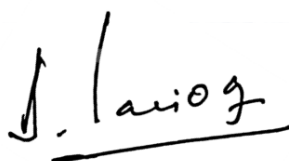
| COURSE | CREDIT PER PAPER | TOTAL NO. OF PAPERS | TOTAL CREDITS |
|---|------------------|---------------------|---------------|
| Major Semesters 1-9 | 4 | 27 | 108 |
| Major Thesis Semester 9 | | 1 | 12 |
| Major Project/Internship Semester 10 | | 1 | 22 |
| Minor | 4 | 8 | 32 |
| Multi- Disciplinary | 3 | 3 | 9 |
| Ability Enhancement | 4 | 2 | 8 |
| Skill Enhancement | 3 | 3 | 9 |
| Value-Added** | 2 | 4 | 8 |
| Internship | | | 2* |
| | | | 210 |

*Internship of 2 credits to be completed by Semester 4
** IKS will be an additional 2 credit course to be completed in semester 2

2. Minor and Multi-Disciplinary courses:

Biotechnology: check the 4-year UG curriculum prospectus

Multimedia: will be specified by the department



Principal