



ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI

NAAC-A+, 1st among Autonomous Colleges across India (Education World 2023)

POST GRADUATE DEPARTMENT OF BIOTECHNOLOGY

PG DIPLOMA IN BIOINFORMATICS (1 YEAR-HYBRID)

EXPLORE - EQUIP - EXCEL



→ Admission Open: <https://xaviers.ac/>

Postgraduate Diploma in Bioinformatics is a one-year program integrating the understanding of biological data with computational methods for Data Analysis. The objective of this program is to empower learners with tools and techniques in basic and advanced biological data analysis to become the key drivers of the data and precision-driven Biology research and Industry.

Highlights Of PG Diploma In Bioinformatics

- ✓ Hybrid mode Programme conducted on Weekends (Friday- Sunday)
- ✓ Bioinformatics as a science
- ✓ Fundamentals of computers and Programming - Python and R
- ✓ Biostatistics – Applications in Bioinformatics
- ✓ Machine Learning Skill Development in collaboration with industry experts
- ✓ NGS Data Analysis strategies
- ✓ Structural Bioinformatics and Molecular Dynamic Simulations
- ✓ Data analysis using Tools, Software and resources
- ✓ Applications- Biomedical Research, Drug Designing and Precision Medicine
- ✓ Capstone Project
- ✓ Content delivery by subject matter experts from Academia, Reputed National Research Institutes, and Industry
- ✓ Rigorous, Learner centric blended and problem based learning approach in imparting basic to advanced training in Bioinformatics through an online platform

Infrastructure Facilities

- ✓ High Performance Advanced computing facility for MD Simulation
- ✓ High Performance Advanced computing facility for NGS Data analysis
- ✓ Bioinformatics Laboratory with Advanced Computers with i7processor

Curriculum Modules - <https://sites.google.com/xaviers.edu/biotechnology/courses/diploma-in-bioinformatics>

Career Scope

- ✓ Research Scientists , Bioinformatics Data analysts (Genomics and Proteomics), Biocurators, Drug Discovery and Development, Pharmacogenomic analyst, Database curators
- ✓ Student Placements: MS and PhD positions at leading National and International Universities, Research analysts, Bioinformatician positions in Biotech led and Pharma-led industries

Eligibility: Post BSc / MSc / MSc (ongoing)-any biological sciences) / BTech / MTech / BPharm / MPharm

Total No. of Seats: 30

Admission: Online application in May 2023 followed by a Personal Interview

Course Commencement: July 2023

 **Further Information:** <https://xaviers.ac/admissions/diploma/bioinformatics-pg-online>

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