



Department of Biological Sciences & Microbiology

The Department of Biological Sciences & Microbiology at Biswa Bangla Biswabidyalay provides a research-intensive master's pathway that unites molecular biology, genetics, ecology, ethnopharmacology, and immunology with specialised training in environmental, industrial, pharmacological, and medical microbiology. Students master contemporary techniques—next-generation sequencing, CRISPR gene editing, flow cytometry, natural product isolation-structure elucidation & drug discovery, microbial fermentation, and bioinformatics analysis—in purpose-built genomics, natural products and bioprocess laboratories, while field modules explore biodiversity hotspots and agro-industrial sites across West Bengal as well as India. Interdisciplinary projects with chemistry, pharmacology, public-health, and data-science groups address challenges such as antimicrobial resistance, bioremediation, and sustainable bioproducts, culminating in a mentored thesis that emphasises ethical research and translational impact. Graduates emerge as versatile life-science professionals prepared for doctoral studies, biosafety-level labs, biopharmaceutical R&D, environmental consultancy, or public-health diagnostics—advancing regional priorities and global scientific frontiers alike.

Faculty:

1. Prof. Santanu Pal.
2. Dr. Ribhu Ray.
3. Dr. Anindya Sundar Ray.
4. Dr. Monojit Mondal.
5. Dr. Amrita Pal Basak.
6. Dr. Priya Gopal.