

DEPARTMENT OF Biotechnology

Application of Outcome Based Education (OBE) in the UG programs of Biotechnology

NETAJI SUBHAS UNIVERSITY
JAMSHEDPUR



B.SC BIOTECHNOLOGY
SYLLABUS
2022 ONWARDS

2021 Head
Department of Bio-Technology
Netaji Subhas University



Dean Academics
Netaji Subhas University
Jamshedpur, Jharkhand

NETAJI SUBHAS UNIVERSITY
DEPARTMENT OF BIOTECHNOLOGY

Vision: Providing graduates equipped with excellent theoretical knowledge and practical skills and promoting scientific research and community service.

Mission

- To provide students a unique and multidisciplinary learning experience that will foster the young minds to develop as a researcher, entrepreneur etc.
- To enhance academic and industrial collaborative research initiatives for the development of biotechnological, food and therapeutic products.
- To emphasize and equip the students towards innovative industrial and research updates.
- To serve the society with utmost commitment, integrity, enthusiasm and dedication.

Programme Outcome: POs

PO-1	Understand and inculcate the ability to apply, update, extend and to developed knowledge through flexible, research intensive program designed to meet the current demand of academia and industry.
PO-2:	Demonstrate professional integrity and ethical attitude with awareness of global and national competencies and think about the social entailment of their work, especially its impact on safety, health and environment for sustainable development.
PO-3	Apply the acquired practical skills and broad biotechnological training in product, process and inculcate leadership qualities for innovative entrepreneurship to meet the societal demands.
PO-4	Ability to design and conduct experiments, as well as to analyze and interpret scientific data.
PO-5	Awareness of contemporary issues that can be mitigated or supported through life science knowhow and biotechnology skills.
PO-6	Equipped with laboratory skills in biotechnology.
PO-7	Ability to integrate technologies through an interdisciplinary learning habit.
PO-8	Demonstrate an independent thinking ability. Ability to communicate effectively.

Programme Specific Outcome-PSOs

PSO-1: To teach the application of biotechnology skills in core and related fields, such as molecular and microbiology, immunology and genetic engineering, fermentation and bioprocess, enzyme and food technology, and bioinformatics.
PSO-2: To foster students' scientific curiosity and give them the ideas and research methodologies they need for a future in biotechnology.
PSO-3: To meet industry and academic demands by providing students with comprehensive, practically oriented knowledge in a variety of biotechnology thrust areas.
PSO4: To demonstrate proficiency in applying technical concepts to biological systems by demonstrating a working knowledge of advanced biological sciences.
PSO5: In order to solve biotechnological challenges, one must be adopting sophisticated biological concepts and methods.
PSO6: Researching complicated issues in biotechnology and related fields by designing, executing, analyzing, and interpreting data.