



Dr. Bhimrao Ambedkar University Agra

Department of Biotechnology
School of Life Sciences, Khandari Campus

Value Added Courses

Course Name	Biotechnology for Society
Course Code	BT-VAC-01
Duration & Credit	30 Hrs. & 2 Credits
Coordinator	Dr. Monika Asthana, Assistant professor
Evaluation	By the Coordinator
Organized by	Department of Biotechnology, School of Life Sciences, Khandari campus, Agra

Course Objectives

To understand the basic concepts and branches of Biotechnology and genetically modified organisms

UNIT I

Brief introduction of Biotechnology
Differences in old and modern Biotechnology

UNIT II

Basic steps of Recombinant DNA technology
Genetically modified organisms
Clone organisms

UNIT III

Colours of Biotechnology and their applications

Blue Biotechnology - Marine
Green Biotechnology - Agriculture
Red Biotechnology - Medical
White Biotechnology - Industrial
Gold Biotechnology - Bioinformatics
Grey Biotechnology - Conservation and Restoration of Environment
Yellow Biotechnology - Nutrient
Violet Biotechnology - IPR
Brown Biotechnology - Current Environmental Challenges Facing Arid and Desert soils

Books: B. D Singh (2016). Biotechnology. Kalyani Publishers, India
P.K. Gupta (2019). Biotechnology and Immunology. Rastogi Publication
P K Gupta (2020). Molecular Biology And Genetic Engineering, Rastogi Publication

Course Outcomes (COs)

This course provides knowledge of Biotechnology uses for society and mankind. At the end of this course student get benefited as following-

- CO1: Get knowledge about Biotechnology and manipulation of genes
- CO2: Understand the genetically modified organisms
- CO3: Learn about different branches of biotechnology in human society

Mans


DEAN
Faculty of Life Science
Dr. Bhimrao Ambedkar University, Agra