



# Dr. Bhimrao Ambedkar University Agra

Department of Biotechnology  
School of Life Sciences, Khandari Campus

## Value Added Courses

Course Name	Pharmaceutical Biotechnology
Course Code	BT-VAC -03
Duration & Credit	30 Hrs. & 2 Credits
Coordinator	Dr. Monika Asthana, Assistant professor
Evaluation	By the Coordinator
Organized by	Department of Biotechnology, SLS, Dr. Bhimrao Ambedkar University Agra

### Course objectives:

After successful completion of the course student will learn the basic principles of health management strategies; Student will also learn the various types of vaccine preparation methods and the essential principles in their health management

## Syllabus

### UNIT 1

Pharmacology: Terms and Definitions;

Drugs, chemicals, antibiotics and probiotics and their mode of action;

Preventive strategies; Quarantine and health certification

### UNIT 2

Principles and methods of vaccine production and immunization;

DNA and RNAi vaccines;

Immunostimulants

### UNIT 3

Bioremediation strategies for health management.

Probiotics; Bioremediators and Other prophylactic measures

### TEXT BOOK:

1. A Textbook of Clinical Pharmacology and Therapeutics by Ritter et al., Hodder Arnold, Hachette Livre UK

### Course Outcomes (Cos):

On completion of this course, students will able to:

CO1: Learn about the terminology of pharmacology and identification of medicinal molecules.

CO2: Learn about Vaccine preparation

CO3: Progress in enduring health management strategies.

*Monika*

  
DEAN  
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