



DR. BHIMRAO AMBEDKAR UNIVERSITY, KHANDARI, CAMPUS, AGRA
Department of Biochemistry
School of Life Sciences
Value Added Course

Course Name	Frontiers of Biochemistry
Course Code	BC VAC-01
Duration And Credit	30 hrs & 02 Credits
Coordinator	Dr. Uditia Tiwari, Assistant Professor
Evaluation	By Coordinator
Organized by	Department of Biochemistry

Course Objectives:

After successful completion of the course student will learn the emerging scope of biochemistry in various fields of forensic, food and blood biochemistry

UNIT I

Scope and Future of Biochemistry, its branches, Green biochemistry and Red Biochemistry and its biological significance

UNIT II

Food Biochemistry- Biochemistry in Food industry, Handling, and Processing, Biochemically Induced Food flavours

UNIT III

Forensic Biochemistry - Qualitative analysis of evidence, Study of body fluids, DNA testing

Reference Books

Principles of Biochemistry by Nelson, Cox and Lehninger

Biochemistry by G. Zubay

Biochemistry, DVoet and JG. Voet, J Wiley and Sons.

Physical Biochemistry: Applications to Biochemistry and Molecular Biology, D Freifilder, W.H. Freeman & Company.

Practical Biochemistry, Wilson & Walker

Course Outcomes (COs)

On the completion of the course, students will be able to:

CO1: To understand the actual chemical concepts of various body processes and physiology using bio-molecules.

CO2: To study of biochemistry helps one to understand the actual chemical concepts of biology.

CO2: To apply the principles of environmental biochemistry to protect our environment.