

BIOCHEMISTRY (BS-ADP 7th Semester)

Module Code:	Chem-441
Module Title:	Bio Chemistry Lab - III
Name of Scheme:	BS-ADP 7th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

In this module student will learn how to isolate enzyme from different sources and effects of different parameters on enzymes activity. It will also provide practical grounds of enzyme inhibition by using UV/Visible spectrophotometer. Students will use assay methods to estimate clinically important enzymes.

SYLLABUS OUTLINES

- Isolation of enzyme from different sources.
- Study of different factors like temperature, pH, Concentration of substrate on the properties of Alkaline Phosphatase and LDH.
- Determination of the kinetic parameters of the enzymes and their mode of inhibition using UV / Visible Spectrophotometer.
- Estimation of Clinically important enzymes like alkaline phosphatase, acid phosphatase, SGPT, SGOT, creatine kinase, etc by using specific assay methods
- Agglutination tests; Enzyme linked immunosorbent assay (ELISA), Western blotting.

RECOMMENDED BOOKS:

1. Practical clinical Biochemistry by Varley. Pub: CBS publishers.
2. Introduction to Practical Biochemistry By D. T. Plummer Pub: McGrawHill.
3. Practical Clinical Biochemistry 4th Edition (English, Paperback, Harold Varley).