

BIOCHEMISTRY (BS-ADP 8th Semester)

Module Code:	Chem-483
Module Title:	Bio Chemistry Lab - III
Name of scheme:	BS-ADP 8th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

This study will provide better understanding of sterilization techniques, bacterial culturing and understanding of bacterial growth curves by chemical tests. It will also help to understand the structure of cell.

Syllabus Outlines

- Study and practical demonstration of laboratory safety measures.
- Preparation of serial dilution from stock solution.
- Sterilization techniques, culturing of bacteria in liquid and solid medium, gram staining of bacteria, colony and cell morphology, bacterial cell count and growth curves by chemical tests.
- Isolation of bacteria.
- Growth of bacteria.
- Antibiotic sensitivity test.
- Activity of drug
- Cell structure: Study of cell structure by light microscope.

RECOMMENDED BOOKS

1. Modern Experimental Biochemistry by R. F. Boyer 3rd ed, 2000, Pub: Pearson Education Inc.
2. Practical clinical Biochemistry by Varley. Pub: CBS publisher
3. An Introduction to Practical Biochemistry by D. T. Plummer 3rd ed. (1987) Pub: McGraw Hill
4. Fundamentals of Microbiology. By E. Aicamo 1994 Publisher; Benjamin- Cummings Publishing Co.