

Al-Al Bayt University
Faculty of Sciences
Biological Science

Course Title :Biochemistry Lab(1)

Course Number :404352

Credit Hours :1

Pre requisite :404351

Placement :

Instructor:

Course Description :

This course is an overview of biochemical laboratory techniques. It is designed to introduce students to common techniques that are currently used in biochemistry research.

General objectives :

The primary objective of this course is for students to (1) learn fundamental approaches for experimentally investigating biochemical problems, (2) learn the theoretical foundations for the methods used, and (3) understand the applicability of the biochemical methods to realistic situations. Topics covered in this course include methods for the isolation, purification, and characterization of amino acids, proteins, carbohydrates, lipids and enzymes.

Course outline :

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1. Laboratory of biochemistry: Introduction, Rules and Instructions.
2. Basic biochemical calculations.
3. Buffers preparation and calculations.
4. pH meter, some important tools in biochemistry lab.
5. Amino acids titration.
6. Spectrophotometry and construction of absorption spectrum.
7. Determination of protein concentration using Biuret method.
8. Isolation of casein from milk.
9. Paper chromatography of amino acids.
10. Carbohydrates: general qualitative tests.
11. Characterization of lipids.
12. Enzymes.

Evaluation methodology :

References :

Course Schedule :

Topic	Hours
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No Information Available...