Module description

-Module title: Biochemical calculations– practical part.

-Module code: BCH 312

-Year: 1446H (2025) – Second semester.

-Module objective:

- To understand the most common calculation in biochemistry.
- Learning how to prepare buffer solutions by different laboratory ways.
- Understanding Beer's- Lambert law and standard curves.

-Mark distribution:

Total mark is 25:

- 5 marks for quizzes.
- 4 marks for reports.
- 3 Lab performance.
- 13 marks for final exam.

-Module experiments:

NO.	Experiment Title
1	Identification of the common laboratory glassware, pipettes and Equipment.
2	Preparation of different solutions.
3	Dilutions of prepared solution.
4	Preparation of Different Buffer Solutions.
5	Preparation of Buffer Solutions by Different Laboratory Ways.
6	Buffer Capacity.
7	Titration of a weak acid with strong base.
8	Titration curve of amino acid.
9	Beer's- Lambert Law and Standard Curves.

-Reference:

Biochemical Calculations (2nd Edition). IRWIN H. SEGEL.