Module Description

-Module title: Biochemical Calculations – practical part.

-Module code: BCH 312

-Year: 1445 H (2024) – Second semester.

-Module objective:

Is to understand the most common calculation in biochemistry, including ways of expressing concentration, pH calculation, ionisation of weak acid, buffers and some applications of spectrophotometers.

-Mark distribution:

The total mark is 25:

- 5 marks for Quizzes.
- 4 marks for the Lab report.
- 1 mark for Lab performance
- 2 marks for HomeWorks
- 13 marks for the final exam.

-Module experiments:

NO.	Experiment Title	Date	HW
1	Identification of the common laboratory glassware, pipettes and Equipment	29 Jan	√
2	Preparation of Solutions	5 Feb	√
3	Dilution of Solutions	12 Feb	√
4	Preparation of Different Buffer Solutions	19 Feb	
5	Preparation of Buffer Solutions by Different Laboratory Ways	4 Mar	√
6	Buffer Capacity	11 Mar	
7	Titration of a weak acid with strong base (theoretical)	18 Mar	
7'	Titration of a weak acid with strong base (practical)	25 Mar	
8	Titration curve of amino acids	15 Apr	
9	Beer's- Lambert Law and Standard Curves	22 Apr	√
	Lab#9 Quiz + Buffer Calculation Revision	29 Apr	
May 7th, 2024 (1 – 3)			

-Reference:

Segel, I. H. (1968, January 1). Biochemical Calculations. John Wiley & Sons.

https://www.dropbox.com/s/j3yi4k0aj9xkzko/%40biochemical%20calculation.pdf?dl=0