

### Module description

**-Module title:** Protein biochemistry– practical part.

**-Module code:** BCH 303

**-Year:** 1447 H (2026) – Second semester.

**-Module objective:**

- Practical knowledge in the protein biochemistry field.
- Understand the principles behind basic experiments of protein biochemistry lab.
- Dealing with proteins.

**-Mark distribution:**

Total mark is 30:

- 5 marks for quizzes.
- 6 marks for lab reports.
- 5 marks for performance.
- 14 marks for final exam:
  - 10 marks for practical part.
  - 4 marks for theoretical part.

**-Module experiments:**

	Experiment title	Date	Quiz
1	General Laboratory Guidelines. Qualitative tests of amino acids.	26 Jan	
2	Quantitative amino acids estimation by ninhydrin method	2 Feb	
3	Effect of various factors on protein solubility and structure.	9 Feb	Lab 1&2
4	Protein extraction from animal and plant source.	16 Feb	Lab 3
5	Protein fractionation by ammonium sulphate and dialysis.	23 Feb	
6	Detection and quantitative estimation of proteins by different methods- part 1	2 Mar	Lab 4&5
7	Detection and quantitative estimation of proteins by different methods- part 2	30 Mar	
8	Effect of various factors on $\alpha$ -amylase activity.	6 Apr	Lab 6&7
9	Revision	13 Apr	Lab 8
<b>Final Exam: 18 May</b>			