

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.	28 Jan	
2	Quantitative amino acids estimation by ninhydrin method	4 Feb	
3	Effect of various factors on protein solubility and structure.	11 Feb	Lab 1&2
4	Protein extraction from animal and plant source.	18 Feb	Lab 3
5	Protein fractionation by ammonium sulphate and dialysis.	25 Feb	
6	Detection and quantitative estimation of proteins by different methods- part 1	4 Mar	Lab 4&5
7	Detection and quantitative estimation of proteins by different methods- part 2	1 Apr	
8	Effect of various factors on α -amylase activity.	8 Apr	Lab 6&7
9	Revision	15 Apr	Lab 8
Final Exam: 18 May			