

Module description

-Module title: Biochemistry of biological fluids – practical part.

-Module code: BCH 472

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

-Module objectives:

1. Learning ways to analyse and estimate the biological fluids in selective samples.
2. Studying the diseases and causes related to these fluids.
3. Focusing on laboratory methods and the way of writing reports and discuss the results of laboratory tests.

-Mark distribution:

Total mark is 30:

- 5 marks for quizzes.
- 6 marks for lab reports.
- 2 marks for performance and activity.
- 3 marks for a case study and homework.
- 14 marks for final exam:
 - 10 marks for practical final exam.
 - 4 marks for theoretical final exam.

-Module experiments:

NO.	Experiment title	Date	
1	Physical properties and detection of normal constituents of urine	13 Jan	16 Jan
2	Detection and estimation of some abnormal urine constituents	20 Jan	23 Jan
3	Quantitative estimation of protein using sulphosalicylic acid	27 Jan	30 Jan
4	Qualitative analysis of renal calculi	3 Feb	6 Feb
5	Creatinine estimation and creatinine clearance tests	10 Feb	13 Feb
6	Determination of blood urea	17 Feb	20 Feb
7	Estimation of uric acid in serum	24 Feb	27 Feb
8	Determination of plasma amylase	3 Mar	6 Mar
9	Pregnancy test	10 Mar	13 Mar
10	Osmolality in serum and urine (theoretical)	7 Apr	10 Apr
Revision + Lab #10 quiz		14 Apr	17 Apr
Final Exam		Week 17 or 18	