

MEDICAL CHEMISTRY

Academic year 2026/27

[Department of Medical Biochemistry, Mala Hora 4D, 1st floor]

WEEK / DATE		Seminars and Laboratory practicals
1.	14. – 18.9.2026	Introduction to laboratory work, laboratory safety. Writing laboratory protocol. Laboratory practical 1 Basics of laboratory work. Pipetting techniques. Preparation of physiological solution.
2.	21. – 25.9.2026	Laboratory practical 2 Introduction to basic biochemical techniques. Photometric determination of iron concentration in the sample.
3.	28.9. – 2.10.2026	Seminar 1 5-question test from lectures of 1st and 2nd (Equilibrium, energetics) week Chemical equations – calculations and solving problems on chemical energetics.
4.	5. – 9.10.2026	Seminar 2 5-question test from lectures of 2nd (Rate of chemical reactions) and 3rd week Enzymes and their regulation.
5.	12. – 16.10.2026	Laboratory practical 3 Substrate specificity of enzymes.
6.	19. – 23.10.2026	Seminar 3 5-question test from lectures of 4th week Concentration, dilution, and pH calculations of aqueous solutions, and buffer systems.
7.	26. – 30.10.2026	Seminar 4 5-question test from lectures of 5th and 6th (Proteins) week Chemical properties and reactions of amino acids, peptides, and proteins.
8.	2. – 6.11.2026	Seminar 5 5-question test from lectures of 6th (Saccharides) and 7th week Properties, chemical reactions, and biological functions of saccharides and lipids
9.	9. - 13.11.2026	Seminar 5 5-question test from lectures of 6th (Saccharides) and 7th week Properties, chemical reactions, and biological functions of saccharides and lipids

10.	16. – 20.11.2026	Seminar 6 5-question test from lectures of 8th week Structure of biological membranes, and membrane transport.
11.	23. – 27.11.2026	Seminar 7 5-question test from lectures of 9th and 10th week Nucleotides, nucleic acids.
12.	30.11. – 4.12.2026	Laboratory practical 4 Reactions of saccharides and lipids (detection of glucose, phospholipids, glycolipids).
13.	7. – 11.12.2026	Substitution of laboratory practicals, 35-question test, missing 5-question tests 1st Retake of Credit test
14.	14.-18.12.2026	2nd Retake of Credit test, retake of 35-question test

Monday: 12:00-13:30

Tuesday: 12:00-13:30

Wednesday: 12:00-13:30

Thursday: 12:00-13:30; 13:30-15:00

Friday: 12:00-13:30

PRINCIPLE OF EVALUATION:

	5-question tests	Credit test
100%	7 × 5 points = 35 points	60 points
60%	21 points	36 points

5-question tests

3 multiple choice questions with one correct answer

2 open answer questions (structural formula, reaction, calculation, definition)