

THEMATIC PLAN

LECTURES on the course of **MEDICAL CHEMISTRY**
for the students of the 1st course of FIS
in the 1st semester of the 2025 – 2026 academic year

Lecture No.	Date of lecture	Topic of the lecture	Number of hours
1	13.02	Chemical thermodynamics and bioenergetics	2
2	06.03	Theory of solutions of weak and strong electrolytes. Acid-base equilibrium. Buffer solutions	2
3	27.03	Physico-chemistry of surface phenomena	2
4	17.04	Physico-chemistry of dispersed systems. Stability of colloidal-dispersed systems	2
		That will be	8

The lectures are held in the lecture hall of the academic building No. 2 (Biletskogo street, 11a).

Head of the Department

E.G. Tyulkova

THEMATIC PLAN

LABORATORY CLASSES on the course of **MEDICAL CHEMISTRY**
for the students of the 1st course of FIS
in the 2nd semester of the 2024 – 2025 academic year

No. of class	Date of class	Topic of the class	Number of hours
1	03.02-08.02	Chemistry and medicine. The doctrine of the chemical equivalent. Methods of expressing the composition of solutions	2
2	10.02-15.02	Introduction into volumetric analysis	2
3	17.02-22.02	Acid-base titration	2
4	24.02-01.03	Theory of redox reactions	2
5	03.03-08.03	Redox titration. Permanganatometric titration	2
6	10.03-15.03	Chemical thermodynamics and bioenergetics	2
7	17.03-22.03	Electrode and reduction potentials	2
8	24.03-29.03	General characteristics of solutions. Heterogeneous equilibria	2
9	31.03-05.04	Colligative properties of solutions	2
10	07.04-12.04	Theories of solutions of weak and strong electrolytes	2
11	14.04-19.04	Acid-base equilibrium. Buffer solutions	2
12	21.04-26.04	Chemical kinetics and catalysis	2
13	28.04-03.05	Coordination compounds	2
14	05.05-10.05	Physico-chemistry of surface phenomena	2
15	12.05-17.05	Physico-chemistry of dispersed systems	2
16	19.05-24.05	Stability of colloidal-dispersed systems	2
17	26.05-31.06	Physico-chemistry of biopolymers and their solutions	2
18	02.06-07.06	The final class "Fundamentals of medical chemistry"	2
		That will be	36

Laboratory classes are held in classrooms 41, 41a, 44 of the academic building No. 2 (Biletskogo street, 11a).

Head of the Department

E.G. Tyulkova