

**Course Listing for Laboratory Classes on Medicinal Chemistry**  
**Fall 2025 (all 08/10/2025 -03/12/2025)**  
**Medical Faculty for International Students, 1st course, 4th batch (specialty 7-07-0911- 01**  
**"General Medicine")**

<b>№ n/n</b>	<b>Date</b>	<b>Theme</b>
1.	08.10	Chemical thermodynamics as the basis of medical chemistry. The usage of the apparatus of thermodynamics of chemical equilibrium in molecular and macromolecular docking.
2.	22.10	Elements of chemical kinetics: the order of the reaction, the half-elimination period, kinetic method for the determination of enzyme activity in blood serum. Theory of active collisions. Theory of transition state complex.
3.	19.11	Chemical basics of the maintenance of osmotic pressure and acidity in human organism: colligative properties of solutions, buffer systems.
4.	03.12	Theories of adsorption, the usage of chromatographic methods of analysis in medicine.
5.*		Colloid chemistry, dispersed systems.
6.*		Properties of biopolymer solutions.

**\* 3 hours of supervised student independent work**

The course schedule was approved at a department meeting № 1, 29.08.2025

Head of the Department of General Chemistry



M.M.Kauhanka