

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS
Educational Institution "Belarusian State Medical University"

Department of Pharmaceutical Chemistry with the course of advanced training and retraining

Discussed at the department meeting
Protocol No. 1 of
"31" August 2025

CALENDAR-THEMATIC PLAN
laboratory lessons on the academic discipline "Pharmaceutical Chemistry"
for 3rd year students of
Medical Faculty for Foreign Students
(with English language of instruction) in the specialty "Pharmacy"
for the 5th term of the 2026/2027 academic year.

No.	LESSON TOPIC	DATE
1.	Introduction to the academic discipline «Pharmaceutical Chemistry». Methods and sources of obtaining medicines	SSIW*
2.	Ensuring the quality of pharmaceutical substances and drugs. General characteristics of pharmaceutical analysis. Pharmacopoeial analysis	07.09.2026
3.	Stability, shelf life and modern approaches to degradation, neutralization and disposal of medicines	14.09.2026
4.	Reagents used in pharmacopoeial analysis. Properties of pharmaceutical substances.	21.09.2026
5.	Titrimetric methods used in pharmaceutical analysis. Gravimetry.	28.09.2026
6.	Spectrometric and thermal methods used in pharmaceutical analysis.	05.10.2026
7.	Chromatographic and biological methods used in pharmaceutical analysis.	12.10.2026
8.	Final lesson on the topics «General issues of pharmaceutical chemistry and methods used in pharmaceutical analysis»	19.10.2026
9.	Methods for identifying inorganic cations and anions used in pharmacopoeial analysis.	26.10.2026
10.	Methods for identifying organic ions and functional groups used in pharmacopoeial analysis. Instrumental identification methods.	02.11.2026
11.	Pharmacopoeial tests of pharmaceutical substances.	09.11.2026
12.	Pharmacopoeial tests of pharmaceutical substances and electrochemical methods used in pharmaceutical analysis.	16.11.2026
13.	Impurities in pharmaceutical substances.	23.11.2026
14.	Final lesson «Methods of pharmacopoeial analysis»	30.11.2026
15.	Final lesson «General approaches to pharmacopoeial analysis»	07.12.2026

16.	Statistical processing of chemical experiment results, validation of methods and the principle of choosing a quantitative determination method. Pharmacopoeial water quality control.	14.12.2026
17.	Pharmacopoeial analysis of pharmaceutical substances of inorganic nature: s-elements.	21.12.2026

*SSIW – students’ supervised independent work

Associate Professor of the Department of Pharmaceutical Chemistry with the course of advanced training and retraining,

PhD, Associate Professor



V.N. Belyatsky