

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 2026

CALENDAR-THEMATIC PLAN
lectures on the academic discipline "Analytical Chemistry"
for 2th year students of
Medical Faculty for Foreign Students
(with English language of instruction) in the specialty "Pharmacy"
for the 3th term of the 2026/2027 academic year.

Дата	THEME
04.09	Subject and tasks of analytical chemistry. Chemical methods for the identification of inorganic substances.
Giws*	Separations and concentration methods
11.09	Chemical equilibrium in analytical chemistry. Protolytic equilibria
18.09	Sampling and sample preparation in pharmaceutical analysis. Analytical chemistry and chemometrics. Using the methods of mathematical statistics for processing the results of quantitative analysis.
GIWS	pH calculation of aqueous solutions. Acidic and basic buffer solutions
25.09	Main definitions of the titrimetric method of analysis. Indicators for acid-base titration. The concept of titration curves. Degree of titration. Titration curves. Systematic indicator error of acid-base titration. Random error of acid-base titration
02.10	Equilibria of complex formation. Organic reagents in chemical analysis. complexometric titration
09.10	Equilibria "precipitate-solution". Precipitation titration
16.10	Gravimetric method of analysis
23.10	Red-Ox equilibria

*GUIDED INDEPENDENT WORK OF STUDENTS

Associated Professor of the Department of
Pharmaceutical Chemistry with advanced
training and retraining



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