

MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS

Educational Institution "Belarusian State Medical University"

Department of Pharmaceutical Chemistry with advanced training course and retraining

Discussed at the meeting of
department

Protocol No. 1 of

"31" August 2026

CALENDAR-THEMATIC PLAN

lectures on the academic discipline "Chromatographic methods of analysis "

for 2nd year students of the

Medical Faculty for International Students

(with English language of instruction) in the specialty "Pharmacy"

for the III semester 2026/2027 academic year.

No.	LECTURE TOPIC	DATE
1.	Chromatography as a method of analysis. History of the development of chromatography. Principle of separation in chromatography Terminology used in chromatography. Classification of chromatographic methods	04.09.2026
2.	Chromatographic parameters	18.09.2026
3.	Principle of chromatographic separation. Theory of theoretical plates and kinetic theory. The efficiency and selectivity of chromatographic separation	GIW*
4.	Gas chromatography. Method variants. Theoretical basis of the method. Arrangement of a gas chromatograph	02.10.2026
5.	The influence of the conditions of the process on the parameters of the separation. Methods of preparation of chromatographic columns. Application of gas chromatography in pharmaceutical analysis	GIW *
6.	Liquid chromatography. Classification. Theoretical description of the separation process. Planer chromatography	16.10.2026
7.	Column chromatography. High-performance liquid chromatography	30.10.2026
8.	Other types of chromatography.	13.11.2026
9.	Chromamass spectrometry	27.11.2026

10.	Quantitative chromatographic analysis	11.12.2026
-----	---------------------------------------	------------

*GIW – guided independent work

Lecturer – N.M. Borabanova

Associate Professor of Department
of Pharmaceutical Chemistry with a
course for advanced training and retraining

PhD, Associate Professor



V.N. Belyatsky