



MEDICAL UNIVERSITY - PLOVDIV

FACULTY OF PHARMACY

Department: PHARMACOGNOSY AND PHARMACEUTICAL CHEMISTRY

The program was approved by the Department council with Protocol № 4/02.07.24 г.

CURRICULUM

FOR LECTURES PHARMACEUTICAL ANALYSIS

VII winter semester of the 2024/2025 academic year, IV course

№	TOPIC	DURATION	DATE
1.	Introduction to Pharmaceutical analysis.	2 hours	16.09-20.09.2024 г
2.	Chromatographic theory. High-performance liquid chromatography.	2 hours	23.09-27.09.2024
3.	Chromatographic theory. High-performance liquid chromatography.	2 hours	30.09-04.10.2024
4.	Gas chromatography.	2 hours	07.10-11.10.2024
5.	Thin layer chromatography.	2 hours	14.10-18.10.2024
6.	Infrared spectrophotometry.	2 hours	21.10-25.10.2024
7.	Ultraviolet and visible spectrophotometry.	2 hours	28.10-01.11.2024
8.	Polarimetry. Refractometry.	2 hours	04.11-08.11.2024
9.	Control of the quality of analytical methods. Validation of analytical procedures. Control of errors in analysis. Reporting of results.	2 hours	11.11-15.11.2024
10.	Analysis of drug substances – amines and amino derivatives.	2hours	18.11-22.11.2024
11.	Analysis of drug substances – hydroxyl derivatives (alcohols and phenols).	2 hours	25.11-29.11.2024
12.	Analysis of drug substances – carboxylic acids and derivatives.	2 hours	02.12-06.12.2024
13.	Nuclear magnetic resonance spectroscopy. Mass spectrometry.	2 hours	09.12-13.12.2024
14.	Analysis of drug substances – purine and pyridine derivatives.	2 hours	16.12-20.12.2024
15.	Analysis of drug substances, affecting Autonomic nervous system.	2 hours	23.12-27.12.2024

Approved by:

/Head of the Department: Assoc. Prof. K. Ivanov, PhD/