



MEDICAL UNIVERSITY OF 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 PRACTIMUM PHARMACEUTICAL ANALYSIS VII winter semester of the 2024/2025 academic year, IV course

№	TOPIC	DURATION	DATE
1.	Quality assurance of drugs. Good manufacturing practice and Good laboratory practice. Pharmacopeia. Laboratory equipment.	5 hours	16.09-20.09.2024 г
2.	European Pharmacopoeia - Identification reactions of ions and functional groups. Limit tests. Standard solutions.	5 hours	23.09-27.09.2024
3.	Clarity and degree of opalescence of liquids, examination of the degree of coloration of liquids. Other tests, described in European Pharmacopoeia.	5 hours	30.09-04.10.2024
4.	High-performance liquid chromatography. Applications of chromatographic methods in the pharmacopoeial analysis of drug substances. Analysis of related substances.	5 hours	07.10-11.10.2024
5.	Application of gas chromatography in the pharmacopoeial analysis of drug substances.	5 hours	14.10-18.10.2024
6.	Application of thin layer chromatography in the pharmacopoeial analysis of drug substances.	5 hours	21.10-25.10.2024
7.	Colloquium - topics 1-6. Application of infrared spectrophotometry in the pharmacopoeial analysis of drug substances.	5 hours	28.10-01.11.2024
8.	Application of ultraviolet and visible spectrophotometry in the pharmacopoeial analysis of drug substances.	5 hours	04.11-08.11.2024
9.	Application of polarimetry and refractometry in the pharmacopoeial analysis of drug substances.	5 hours	11.11-15.11.2024
10.	Control of the quality of analytical methods. Validation of analytical procedures. Control of errors in analysis. Reporting of results.	5 hours	18.11-22.11.2024
11.	Analysis of drug substances – ethers, aldehydes and ketones. Analysis of drug substances – amines and amino derivatives.	5 hours	25.11-29.11.2024
12.	Analysis of drug substances – hydroxyl derivatives (alcohols and phenols). Analysis of drug substances – carboxylic acids and derivatives.	5 hours	02.12-06.12.2024

13.	Colloquium - topics 7-12. Analysis of drug substances - beta-blockers.	5 hours	09.12-13.12.2024
14.	Analysis of drug substances - furan derivatives. Analysis of drug substances – ACE inhibitors, angiotensin II blockers, calcium channel blockers, peripheral vasodilators and diuretics.	5 hours	16.12-20.12.2024
15.	Analysis of drug substances - Analysis of lipid-modifying drug substances. Analysis of antithrombotic and antihemorrhagic drug substances.	5 hours	23.12-27.12.2024

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