

**Thematic lesson plan
in the internship in quality control of medicines
for students for students in 2020 admission
according to the educational program
specialist degree
in the specialty of training 33.05.01 Pharmacy
direction (profile) Pharmacy,
form of study full-time (face to face)
for the 2024-2025 academic year**
at the Department of Pharmaceutical and Toxicological Chemistry,
Pharmacognosy and Botany

№	Thematic blocks	Hours (acad.)
1.	Familiarisation with the organisation of the pharmacy. Instruction on safety. Preparation of work schedule. Familiarisation with the existing system of quality control of medicines.	2
2.	Problem solving to determine the quantitative content of a substance in a medicinal product	2
3.	Determination of solubility of preparations 'Boric acid', 'Potassium chloride', 'Magnesium sulphate', 'Sodium hydrogen carbonate'.	2
4.	Determination of chloride impurities in pharmaceutical substances	2
5.	Determination of sulphate impurities in pharmaceutical substances	2
6.	Determination of heavy metal impurities in pharmaceutical substances	2
7.	Determination of calcium impurities in pharmaceutical substances	2
8.	Определение примесей аммония в лекарственных субстанциях	2
9.	Performing physical control of a customised medicinal product (checking the weight of individual powder doses - at least three doses).	2
10	Quality assessment of treated water	2
11	Identification of inorganic cations	2
12	Identification of inorganic anions	2
13	Identification of organic functional groups	2

14	Identification of organic functional groups	2
15	Pharmaceutical analysis of the medicinal product Dibazol	2
16	Refractometry	2
17	Problem solving	2
18	Problem solving	2
	Total:	36

Considered at the meeting of the department of Pharmaceutical and Toxicological Chemistry, pharmacognosy and botany "28" August 2024, protocol No1

Head of the Department



Ozerov A.A.