

**Thematic plan for lecture-type classes  
in discipline « Toxicological chemistry »  
for students of 2023 year of admission  
under the educational programme  
33.05.01 Pharmacy,  
specialisation (profile) Pharmacy  
(Specialist's degree),  
form of study full-time  
for the 2025-2026 academic year**

№	Topics of lecture-type classes	Hours (academic)
<b>6 term</b>		
1.	A group of substances isolated from biological material by mineralization. Ecology of the environment and the prevalence of poisoning by heavy metal compounds and arsenic.	2
2.	Toxicology and chemical-toxicological analysis of fluorine compounds.	2
3.	A group of substances isolated from biological objects by distillation.	2
<b>7 term</b>		
4.	Methods of isolating xenobiotics from biological objects during forensic chemical analysis. Comparative characteristics of general and specific isolation methods. Theoretical foundations of sample preparation during biofluid studies. Extraction in liquid-liquid and solid-liquid systems. Methods of purifying isolates.	2
5.	Characteristics of groups of xenobiotics causing intoxication. Chemical-toxicological analysis of opiates.	2
6.	Chemical and toxicological analysis of tropane alkaloids and cannabinoids.	2
	Total	12

Considered at the department meeting Pharmaceutical, Toxicological Chemistry, Pharmacognosy and Botany, protocol of «30»      may      2025 г. № 10.

Head of the Department

A.A. Ozerov