

**Thematic plan for independent work of a student
in discipline « General pharmaceutical 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**

| № | Topic of independent work | Hours (academic) |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 4 term | | |
| 1. | The development of world and Russian pharmaceutical chemistry ¹ . The period of the origin of the first chemical theories. The origins of Russian pharmacy. The first chemical schools and the creation of new chemical theories in Russia. Formation and development of the control and analytical service in Russia ² . | 14 |
| | Control of independent work | 2 |
| 5 term | | |
| 1. | Methods of quantitative determination in pharmaceutical analysis ¹ . Electrochemical methods of analysis. Potentiometric titration. The essence of the method. Advantages and disadvantages. Amperometric titration. The essence of the method. Advantages and disadvantages. Coulometry. The essence of the method. Advantages and disadvantages. Conductometry. The essence of the method. Advantages and disadvantages ² . | 26 |
| | Control of independent work | 2 |
| 6 term | | |
| 1. | Prevention of viral diseases. Pharmacopoeia analysis of antiviral vaccines ¹ . Influenza virus. Structural features. Pathology. General pharmaceutical analysis of anti-influenza drugs. Hepatitis B and C virus. Structure. Pathology. General pharmaceutical analysis of hepatitis B and C drugs ² . | 39 |
| | Control of independent work | 2 |
| | TOTAL | 85 |

¹ - Subject

² - Essential content

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

Head of the Department



A. Ozerov