

**The thematic plan of independent work of a student  
in the discipline "General pharmaceutical chemistry"  
for students enrolled  
in the educational program in 2022  
33.05.01 Pharmacy,  
profile Pharmacy  
(specialty),  
the form of study is full-time  
for the 2024 – 2025 academic year**

| №      | The topic of independent work   | Hours<br>(academic) |
|--------|---|---------------------|
| 4 term |   |                     |
| 1.     | The development of global pharmaceutical chemistry <sup>1</sup> . The period of iatrochemistry. The period of the origin of the first chemical theories <sup>2</sup> .                              | 7                   |
|        | The development of pharmaceutical chemistry in Russia <sup>1</sup> . The origins of Russian pharmacy. The first chemical schools and the creation of new chemical theories in Russia <sup>2</sup> . |                     |
| 2.     | Formation and development of the control and analytical service in Russia <sup>1,2</sup> .  | 7                   |
|        | Research in the field of chemotherapy and chemistry of natural substances <sup>1,2</sup> .  |                     |
|        | Control of independent work   | 2                   |
| 5 term |   |                     |
| 3.     | Potentiometric titration. Amperometric titration <sup>1</sup> . The essence of the methods. Advantages and disadvantages of methods <sup>2</sup> .  | 10                  |
|        | Control of independent work   | 2                   |
| 6 term |   |                     |
| 4.     | Prevention of viral diseases <sup>1</sup> . Pharmacopoeia analysis of antiviral vaccines (vaccines against influenza, coronavirus, hepatitis B and C, etc.) <sup>2</sup> .                          | 14                  |
|        | Control of independent work   | 2                   |
|        | Total   | 44                  |

<sup>1</sup> - Subject

<sup>2</sup> - Essential content

Reviewed at the meeting of the department of Pharmaceutical and Toxicological Chemistry, Pharmacognosy and Botany on «28» august, 2024, protocol № 1.

Head of the Department



A. Ozerov