

**Thematic plan of independent work of the student
in the discipline " General pharmaceutical chemistry "
for students of 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 2023-2024 academic year**

№	The topic of independent work	Hours (academic)
4 term		
	Development of world pharmaceutical chemistry. Period of iatrochemistry. The period of the birth of the first chemical theories.	14
	Development of pharmaceutical chemistry in your country.	14
	Formation and development of the control and analytical service in your country.	12
Total for the term		40
5 term		
1	Potentiometric titration ¹ . Essence of the method. Advantages and disadvantages. Applications of potentiometric titration in pharmaceutical analysis ² .	14
2	Iodochlorometry ¹ . Titration conditions, working solution, indicator. Advantages and disadvantages of the method ² .	14
3	Determination of amine nitrogen by the methods of formol and Iodometric titration ¹ .	12
Total for the term		40
6 term		
1	Respiratory syncytial virus. Drugs to treat it. Formulas. Methods of obtaining.	14
2	Influenza prophylaxis. Influenza vaccine inactivated. Live influenza vaccine. Pharmacopoeial analysis.	14
3	Hepatitis B prophylaxis. Hepatitis B recombinant vaccine. Pharmacopoeial analysis.	12
Total for the term		40
Total		120

¹ -Subject

² - essential content (if necessary)

INSTRUCTIONS FOR PERFORMING INDEPENDENT WORK

1. Independent work of students includes independent study in the fourth term of three topics provided for by the work program. It consists in preparing an essay on the topic of independent work.
2. The completed work is translated into .pdf format, placed in the section on the educational website of the university, in the course "General Pharmaceutical Chemistry", in the section "Independent work".
3. Before posting on the educational site of the university, you must correctly name the file: Full name. students_group_work_1

CRITERIA FOR ASSESSING INDEPENDENT WORK

Each topic of independent work is estimated from 3 to 5 points. Work rated below 3 points is not counted and requires revision by the student.

Evaluation criteria	Rating score
The work has not been handed over, not handed over in full, the work does not correspond to the subject of independent work.	0 -2
The work was submitted in full, but it contained more than 2 gross thematic errors or omitted more than 1 key issue of the topic of independent work.	3
The work was submitted in full, but 1-2 gross thematic errors were made in it or 1 key question of the topic of independent work was omitted.	4
The work has been handed over in full, it does not contain gross thematic errors, the key issues of the topic of independent work are not missed.	5

Considered at the meeting of the department of Pharmaceutical and Toxicological Chemistry "27" may 2023, protocol No9

Head of the Department



Ozerov A.