



COURSE SCHEDULE
OF SEMINAR AND LABORATORY CLASSES
 on ANALYTICAL CHEMISTRY for students of 2nd year of education
(title of academic subject)
 speciality 226 – PHARMACY, INDUSTRIAL PHARMACY (Φμ20(4,10δ)αγγλ)
(code number and title of speciality)
 autumn semester, 2021/2022 academic year

№	Date	Topic of class	Hours, type of class	Points	
				min	max
THEMATIC MODULE 1.					
THEORETICAL BASICS OF ANALYTICAL CHEMISTRY. QUALITATIVE ANALYSIS OF CATIONS					
1	01.09.21 – 05.09.21	Introduction to qualitative analysis. Analysis of the I st analytical group cations	3, lab. cl.	-	-
2	06.09.21 – 12.09.21	Analysis of the II nd analytical group cations. Heterogeneous balances	3, lab. cl.	2	3
3	13.09.21 – 19.09.21	Analysis of the III ^d analytical group cations. Balances in the solutions of acids and bases	3, lab. cl.	2	3
4	20.09.21 – 26.09.21	Analysis of the IV th analytical group cations. Balances in the solutions of amphoteric compounds. Balances in buffer solutions	3, lab. cl.	2	3
5	27.09.21 – 03.10.21	Analysis of the V th analytical group cations. Balances in the solutions of hydrolysed salts	3, lab. cl.	2	3
6	04.10.21 – 10.10.21	Analysis of the VI th analytical group cations. Balances in the solutions of complex compounds	3, lab. cl.	2	3
7	11.10.21 – 17.10.21	<i>The control of thematic module 1</i>	3, lab. cl.	8	15
<i>In all by SM 1:</i>			21	18	30
THEMATIC MODULE 2. ANALYSIS OF ANIONS. BASIC OF QUANTITATIVE ANALYSIS					
8	18.10.21 – 24.10.21	Analysis of the I st analytical group anions. Oxidation-reduction reactions and their using in analysis	3, lab. cl.	2	3
9	25.10.21 – 31.10.21	Analysis of the II nd and III ^d analytical groups anions. Special cases in the analysis of anions	3, lab. cl.	2	3
10	01.11.21 – 07.11.21	Gravimetry: volatilization and particulate methods. Moisture determination by indirect volatilization gravimetric method	3, lab. cl.	-	-
11	08.11.21 – 14.11.21	Titrimetric methods of analysis. Preparation of the titrants	3, lab. cl.	-	-
12	15.11.21 – 21.11.21	Titrimetric methods of analysis. Standardization of the titrants	3, lab. cl.	2	3
13	22.11.21 – 28.11.21	Acid-base titration. Determination of individual substances	3, lab. cl.	2	3
14	29.11.21 – 05.12.21	Acid-base titration with fixation of two equivalence points	3, lab. cl.	2	3
15	06.12.21 – 12.12.21	Back acid-base titration	3, lab. cl.		
16	13.12.21 – 19.12.21	<i>The control of thematic module 2</i>	3, lab. cl.	8	15
<i>In all by SM 2:</i>			27	18	30
17	20.12.21 – 24.12.21	<i>Final control of Module 1</i>	3, lab. cl.	24	40
18	10.01.22 – 16.01.22	<i>Rating increase on Module 1</i>	3, lab. cl.		
<i>In all by Module 1</i>			54	60	100

Head of the Analytical Chemistry

And Analytical Toxicology Department

prof. S. V. Kolisnyk