



**COURSE SCHEDULE  
OF PRACTICAL LESSONS**

on **Drug and Analytical Toxicology** for the 4 year  
in specialty **226 Pharmacy, industrial pharmacy Phm18 (5.0 full-time)eng**  
(Fall Semester, 2021-2022 academic year)

No.	Date	Topic of the Subject	Total Hours, Type of Class	Knowledge assessment system, points	
				min	max
<b>CONTENT MODULE 1. DRUG TOXICOLOGY</b>					
1	01.09-03.09.21	The content of drug toxicology. Toxicology of OAs, NOAs, NSAIDs.	3 (p.l.)	0.5	1
2	06.09-10.09.21	Toxicology of neuroleptics, tranquilizers, hypnotic and other CNS drugs.	3 (p.l.)	1.25	2
3	13.09-17.09.21	Toxicology of local anesthetics and stimulants of the central nervous system	3 (p.l.)	0.25	2
		<b>Control for Content module 1.</b>		3	5
<b>Total for CM 1:</b>				<b>6</b>	<b>10</b>
<b>CONTENT MODULE 2. ANALYTICAL TOXICOLOGY. CHEMICOTOXICOLOGICAL ANALYSIS OF DRUGS</b>					
4	20.09-24.09.21	Analytical testing scheme design. Specimen testing and external examination.	3 (p.l.)	1	1,5
5	27.09-01.10.21	Chemicotoxicological analysis of drugs. Sample preparation methods.	3 (p.l.)	1	1,5
6	04.10-08.10.21	TLC-screening of acid chloroform extract.	3 (p.l.)	1	1,5
7	11.10-15.10.21	Examination of the acid chloroform extract for derivatives of barbituric and salicylic acids, pyrazolone, purine by chemical method.	3 (p.l.)	1	1,5
8	18.10-22.10.21	Examination of the basic chloroform extract for alkaloids.	3 (p.l.)	1	2
9	25.10-29.10.21	Examination of basic chloroform extract for derivatives of 1,4-benzodiazepine, phenothiazine, <i>p</i> -aminobenzoic acid.	3 (p.l.)	1	2
10	01.11-05.11.21	Examination of body fluids for drugs at acute intoxications.	3 (p.l.)	1	2
11	08.11-12.11.21	Quantitative determination of drugs in biological samples.	3 (p.l.)	1	2
		<b>Control for Content module 2.</b>		7	11
<b>Total for CM 2:</b>				<b>15</b>	<b>25</b>
<b>CONTENT MODULE 3. CHEMICOTOXICOLOGICAL ANALYSIS OF VOLATILE SUBSTANCES AND HEAVY METAL COMPOUNDS. ANALYTICAL DIAGNOSTICS OF TOXIC GAS POISONINGS</b>					
12	15.11-19.11.21	Chemicotoxicological analysis of volatile substances (cyanides, formaldehyde, chlorinated hydrocarbons).	3 (p.l.)	1	2
13	22.11-26.11.21	Chemicotoxicological analysis of volatile substances (methanol, ethanol, isopentanol), acetone, phenol, acetic acid. Gas-Liquid Chromatography.	3 (p.l.)	1	2

14	29.11-03.12.21	Chemicotoxicological analysis of organophosphorus pesticides.	3 (p.l.)	1	2
15	06.12-10.12.21	Chemicotoxicological analysis of heavy metal compounds: barium, lead, manganese, chromium compounds.	3 (p.l.)	1	2
16	13.12-17.12.21	Chemicotoxicological analysis of heavy metal compounds.	3 (p.l.)	1	2
17	20.12-24.12.21	<b>Control for Content module 3.</b>	3 (p.l.)	10	15
<b>Total for CM 3:</b>				<b>15</b>	<b>25</b>
18	10.01-14.01.22	<b>Final Modular Control.</b>	3 (p.l.)	24	40
<b>TOTAL FOR THE MODULE 1</b>			54	<b>60</b>	<b>100</b>

Chairman of Analytical Chemistry and Analytical Toxicology Department, Professor



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