

		CALENDAR-THEMATIC PLAN OF LECTURES Biological chemistry for 3-d course of study full-time form of education in specialty 226 Pharmacy, Industrial Pharmacy (Language of instructions – English) ФМ23*(4.10)англ – 01 spring semester, 2024-2025 a.y.		
No	Date	Lesson Name	Hours	Lecturer
MODULE 2. METABOLISM AND ITS REGULATION				
1.	10.02.2025	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	2	ass.prof. Seniuk I.V.
2.	24.02.2025	Vitamins. Nomenclature and Classification of Vitamins, Chemical Structure and Vitamin's Action Molecular Basis. Vitamin Deficiency.	2	ass.prof. Seniuk I.V.
3.	10.03.2025	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters. Endocrine dysfunction and their pharmaceutical treatment.	2	ass.prof. Seniuk I.V.
4.	24.03.2025	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism. Integration of metabolic pathways.	2	ass.prof. Seniuk I.V.
Total:			8	

Note: lectures are given on Monday from 10:25 to 12:05, online.

**Head of the Department of
Clinical Laboratory Diagnostics,
Microbiology and Biological Chemistry**



Vira KRAVCHENKO



CALENDAR-THEMATIC PLAN OF PRACTICAL LESSONS
Biological Chemistry 3-d course of study full-time form of education
in specialty 226 Pharmacy, Industrial pharmacy
(Language of instructions – English)
ФМ23*(4.10)АНГЛ-01
spring semester, 2024-2025 a.y.

No	Date	Lesson Name	Volume in hours	Knowledge Assessment System, points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1.	10.02.2025	Conjugated proteins metabolism. Metabolism of Hemoproteins.	4	5	7
2.	24.02.2025	Conjugated proteins metabolism. Metabolism of Nucleotides and Nucleic Acids.	4	5	7
3.	10.03.2025	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	4	4	6
		Final test of CM 3 assimilation		10	20
Total from CM 3				24	40
CONTENT MODULE 4. INDIVIDUAL METABOLIC PROCESSES					
4.	24.03.2025	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat- soluble vitamins. Vitamin Deficiency.	4	5	8
5.	07.04.2025	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	5	8
6.	21.04.2025	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	5	8
7.	05.05.2025	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	5	8
8.	19.05.2025	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	5	8
9.	02.06.2025	Final test of CM 4 assimilation	2	5	10
		Semester credit of the Module 2 «Metabolism and its regulation».	2	6	10
Total from CM 4				36	60
THE WHOLE NUMBER OF HOURS FOR THE MODULE 2:			36	60	100

Head of the Department of
 Clinical Laboratory Diagnostics,
 Microbiology and Biological Chemistry

Vira KRAVCHENKO