
		<b>CALENDAR-THEMATIC PLAN OF LECTURES</b> <b>Biological chemistry for 3-d course of study full-time form of education</b> <b>in specialty 226 Pharmacy, Industrial</b> <b>Pharmacy(Language of instructions – English)</b> <b>ФМ22(4.10)англ – 01-02</b> <b>autumn semester, 2024-2025 a.y.</b>		
No	Date	Lesson Name	Hours	Lecturer
<b>MODULE 2. METABOLISM AND ITS REGULATION</b>				
1.	<b>02.09.2024</b>	Transfer of Genetic Information. Protein Biosynthesis in the Cell. Mechanisms of Protein Biosynthesis Regulation. Antibiotics.	2	ass.prof. Seniuk I.V.
2.	<b>09.09.2024</b>	Vitamins. Nomenclature and Classification of Vitamins, Chemical Structure and Vitamin`s Action Molecular Basis. Vitamin Deficiency.	2	ass.prof. Seniuk I.V.
3.	<b>16.09.2024</b>	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.	<b>23.09.2024</b>	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism. Integration of metabolic pathways.	2	ass.prof. Seniuk I.V.
<b>Total:</b>			<b>8</b>	

*Note:* lectures are given on Monday from 16:40 to 18:15, online.

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




**Vira KRAVCHENKO**

		<b>CALENDAR-THEMATIC PLAN OF PRACTICAL LESSONS</b> <b>Biological Chemistry 3-d course of study full-time form of education</b> <b>in specialty 226 Pharmacy, Industrial pharmacy</b> <b>(Language of instructions – English)</b> <b>ФМ21(4.10)англ-01,</b> <b>autumn semester, 2024-2025 a.y.</b>			
No	Date	Lesson Name	Volume in hours	Knowledge Assessment System, points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1.	06.09.2024	Conjugated proteins metabolism. Metabolism of Hemoproteins.	4	5	7
2.	20.09.2024	Conjugated proteins metabolism. Metabolism of Nucleotides and Nucleic Acids.	4	5	7
3.	04.10.2024	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.	18.10.2024	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat- soluble vitamins. Vitamin Deficiency.	4	5	8
5.	01.11.24	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	5	8
6.	15.11.2024	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	5	8
7.	29.11.2024	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	5	8
8.	13.12.2024	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	5	8
9.	10.01.2025	Final test of CM 4 assimilation	2	5	10
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

		<b>CALENDAR-THEMATIC PLAN OF PRACTICAL LESSONS</b> <b>Biological Chemistry 3-d course of study full-time form of education</b> <b>in specialty 226 Pharmacy, Industrial pharmacy</b> <b>(Language of instructions – English)</b> <b>ФМ21(4.10)АНГЛ-02,</b> <b>autumn semester, 2024-2025 a.y.</b>			
No	Date	Lesson Name	Volume in hours	Knowledge Assessment System, points	
				min	max
CONTENT MODULE 3. FUNDAMENTALS OF MOLECULAR BIOLOGY					
1.	13.09.2024	Conjugated proteins metabolism. Metabolism of Hemoproteins.	4	5	7
2.	27.09.2024	Conjugated proteins metabolism. Metabolism of nucleotides and nucleic acids.	4	5	7
3.	11.10.2024	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.	25.10.2024	Vitamins. Nomenclature and Classification of Vitamins. Chemical Structure and Functions of Fat-soluble vitamins. Vitamin Deficiency.	4	5	8
5.	08.11.2024	Chemical Structure and Functions of Water-soluble vitamins. Vitamin Deficiency.	4	5	8
6.	22.11.2024	Biochemical bases of reception. Mechanisms of signal transmission inside the cell. General characteristics and classification of hormones and neurotransmitters.	4	5	8
7.	06.12.2024	Mechanisms of action of hormones. Endocrine dysfunction and their pharmacocorrection.	4	5	8
8.	20.12.2024	Metabolic Detoxification Pathways. Liver importance in xenobiotics metabolism.	4	5	8
9.	17.05.2024	Final test of CM 4 assimilation	2	5	10
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