

**PLAN OF CLASSES**  
**in the 3rd term of 2022/2023 academic year**  
**FOR THE MEDICAL FACULTY FOR INTERNATIONAL**  
**STUDENTS (English medium)**

Week	DATE	THEME	Hours
	01.09-02.09	Introduction into Biochemistry I.	
1	05.09-09.09	Introduction into Biochemistry II. Rules of work in biochemical laboratory. Work with pipettes. Photoelectrocolorimeter.	3
2	12.09-16.09	Properties and functions of proteins. Colour reactions of amino acids and proteins. Quantitative determination of protein.	3
3	19.09-23.09	Structures of proteins. Precipitation and fractionation of proteins	3
4	26.09-30.09	Diversity and classification of proteins. Acidic and enzymatic hydrolysis of proteins.	3
5	03.10-07.10	Enzymes: properties and mechanism of action. Influence of factors on the velocity of enzymatic reactions. Determination of amylase activity in the blood serum.	3
6	10.10-14.10	Kinetics of enzymatic reactions. Kinetics of the lipase activity.	3
7	17.10-21.10	Applied aspects of enzymology. Students' individual work.	3
<b>8</b>	<b>24.10-28.10</b>	<b>MINI-EXAM «PROTEINS &amp; ENZYMES»</b>	3
9	31.10-04.11	General pathways of amino acid metabolism. Determination of alanine aminotransferase activity in the blood serum	3
10	08.11-11.11	Detoxification of ammonia. Metabolism of certain amino acids. Determination of urea in the blood serum. Students' individual work	3
11	14.11-18.11	Structure of nucleotides and nucleic acids. Hydrolysis of nucleoproteins.	3
12	21.11-25.11	Metabolism of nucleotides and nucleic acids. Determination of uric acid concentration in the blood serum	3
13	28.11-02.12	Biosynthesis of nucleic acids and protein. Students' individual work.	3
14	05.12-09.12	Principles of molecular biology. Students' individual work	3
<b>15</b>	<b>12.12-16.12</b>	<b>MINI-EXAM «METABOLISM OF NUCLEIC ACIDS AND NUCLEOTIDES. PRINCIPLES OF MOLECULAR BIOLOGY».</b>	3
16	19.12-23.12	Basics of bioenergetics. Determination of high-energy compounds in muscles	3
17	26.12-30.12	The central pathway of metabolism. Biochemistry of membranes. Detection of the activity of succinate dehydrogenase and cytochrome oxidase. Students' individual work	3
18	02.01-08.01	Oxidative processes in the cell. Introduction into metabolism. <b>CREDIT SESSION</b>	3

**Head of department of Biochemistry,**  
**professor**

**V.V.Lelevich**

