PLAN OF CLASSES
in the 3rd term of 2021/2022 academic year
FOR THE MEDICAL FACULTY FOR INTERNATIONAL STUDENTS (English medium)

Week	DATE	THEME	Hours
1	01.09-03.09	Introduction into Biochemistry. Rules of work in biochemical laboratory. Work with pipettes. Photoelectrocolorimeter.	3
2	06.09-10.09	Properties and functions of proteins. Colour reactions of amino acids and proteins. Quantitative determination of protein.	3
3	13.09-17.09	Structures of proteins. Precipitation and fractionation of proteins	3
4	20.09-24.09	Diversity and classification of proteins. Acidic and enzymatic hydrolysis of proteins.	3
5	27.09-01.10	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	04.10-08.10	Kinetics of enzymatic reactions. Kinetics of the lipase activity.	3
7	11.10-15.10	Applied aspects of enzymology. Students' individual work.	3
8	**18.10-22.10**	**Mini-exam «Proteins & Enzymes»**	3
9	25.10-29.10	General pathways of amino acid metabolism. Determination of alanine aminotransferase activity in the blood serum	3
10	01.11-05.11	Detoxification of ammonia. Metabolism of certain amino acids. Determination of urea in the blood serum. Students' individual work	3
11	08.11-12.11	Structure of nucleotides and nucleic acids.Hydrolysis of nucleoproteins.	3
12	15.11-19.11	Metabolism of nucleotides and nucleic acids. Determination of uric acid concentration in the blood serum	3
13	22.11-26.11	Biosynthesis of nucleic acids and protein. Students' individual work.	3
14	29.11-03.12	Principles of molecular biology. Students' individual work	3
15	**06.12-10.12**	**Mini-exam «Metabolism of nucleic acids and nucleotides. Principles of molecular biology».**	3
16	13.12-17.12	Basics of bioenergetics. Determination of high-energy compounds in muscles	3
17	20.12-24.12	The central pathway of metabolism. Biochemistry of membranes. Detection of the activity of succinate dehydrogenase and cytochrome oxidase. Students' individual work	3
18	27.12-31.12	Oxidative processes in the cell. Introduction into metabolism. **CREDIT SESSION**	3

Head of department of Biochemistry,
professor **V.V.Lelevich**