

PLAN OF CLASSES
in the 3rd term of 2020/2021 academic year
FOR THE MEDICAL FACULTY FOR INTERNATIONAL STUDENTS
(English medium)

Week	DATE	THEME	Hours
1	01.09-04.09	Introduction into biochemistry. Rules of work in biochemical laboratory. Photoelectrocolorimeter.	3
2	07.09-11.09	Proteins: properties and functions. Colour reactions on amino acids and proteins. Quantitative determination of protein.	3
3	14.09-18.09	Structure of protein molecules. Precipitation and fractionation of proteins	3
4	21.09-25.09	Diversity and classification of proteins. Acidic and enzymatic hydrolysis of proteins.	3
5	28.09-02.10	Enzymes: properties and mechanisms of action. Influence of factors on the velocity of enzymatic reactions. Determination of amylase activity in the blood serum.	3
6	05.10-09.10	Kinetics of enzymatic reactions. Kinetics of the lipase activity.	3
7	12.10-16.10	Applied aspects of enzymology. Students' individual work.	3
8	19.10-23.10	MINI-EXAM «PROTEINS & ENZYMES»	3
9	26.10-30.10	General pathways of amino acid metabolism. Determination of alanine aminotransferase activity in the blood serum..	3
10	02.11-06.11	Detoxification of ammonia. Metabolism of certain amino acids. Determination of urea in the blood serum. Students' individual work".	3
11	09.11-13.11	Structure of nucleotides and nucleic acids. Hydrolysis of nucleoproteins	3
12	16.11-20.11	Metabolism of nucleotides and nucleic acids. Determination of uric acid concentration in the blood serum.	3
13	23.11-27.11	Biosynthesis of nucleic acids and proteins. Students' individual work.	3
14	30.11-04.12	Principles of molecular biology. Students' individual work.	3
15	07.12-11.12	MINI-EXAM «METABOLISM OF NUCLEIC ACIDS AND NUCLEOTIDES. PRINCIPLES OF MOLECULAR BIOLOGY»	3
16	14.12-18.12	Basics of bioenergetics. Quantitative determination of high-energy compounds in the muscular tissue.	3
17	21.12-24.12	Central pathways of metabolism. Biochemistry of membranes. Detection of the activity of succinate dehydrogenase and cytochrome oxidase. Students' individual work on the "energy metabolism".	3
18	28.12-31.12	Oxidative processes in the cell. Introduction into metabolism. CREDIT SESSION.	3

**Head of department of Biochemistry,
professor**

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