

Lecture Course in Chemistry for students of Dental Medicine, academic year 2022/2023

№	TOPIC	DATE
1.	Coordination compounds. Chelates.	6.02.2023
2.	Acids and basis. Self-ionization of water. The pH scale. Buffers. Buffers in the human body	13.02.2023
3.	Oxidation-reduction reactions, biological oxidation. Chemical thermodynamics. Bioenergetics	20.02.2023
4.	Organic compounds-main classes. Reactions of organic compounds. Isomerism	27.02.2023
5.	Hydroxyl derivatives of hydrocarbons - alcohols and phenols	6.03.2023
6.	Carbonyl compounds.	13.03.2023
7.	Carboxylic acids. Aliphatic and aromatic mono carboxylic acids.	20.03.2023
8.	Dicarboxylic acids. Hydroxy- and keto acids	27.03.2023
9.	Amines – chemical properties. Biogenic amines. Alpha amino acids: physical and chemical properties	3.04.2023
10.	Chemical aspects of amino acid metabolism. Peptides and Proteins. Biocatalysis	17.04.2023
11.	Carbohydrates –chemical properties.	24.04.2023
12.	Chemical aspects of carbohydrate metabolism	1.05.2023
13.	Lipids. Basic concepts of lipid metabolism	8.05.2023
14.	Five membered heterocyclic compounds – furan, thiophene, pyrrole, pyrazole, imidazole, thiazole and their biologically active derivatives.	15.05.2023
15.	Heterocyclic compounds with six-membered ring and fused rings. Nucleic acids	22.05.2023

Lecturer: Assoc. Prof. Y. Uzunova, PhD
2.02.2023

Lecture Course in Chemistry for students of Medicine, academic year 2022/2023

№	TOPIC	DATE
1.	Coordination compounds. Chelates.	10.02.2023
2.	Acids and basis. Self-ionization of water. The pH scale Buffers. Buffers in the human body.	17.02.2023
3.	Oxidation-reduction reactions, biological oxidation. Chemical thermodynamics. Bioenergetics	23.02.2023
4.	Organic compounds-main classes. Reactions of organic compounds. Isomerism	03.03.2023
5.	Hydroxyl derivatives of hydrocarbons - alcohols and phenols	10.03.2023
6.	Carbonyl compounds	17.03.2023
7.	Carboxylic acids. Aliphatic and aromatic mono carboxylic acids	24.03.2023
8.	Dicarboxylic acids. Hydroxy- and keto acids	31.03.2023
9.	Amines – chemical properties. Biogenic amines. Alpha amino acids: physical and chemical properties	07.04.2023
10.	Chemical aspects of amino acid metabolism. Peptides and Proteins. Biocatalysis.	21.04.2023
11.	Carbohydrates, isomerism, chemical properties.	28.04.2023
12.	Chemical aspects of carbohydrate metabolism	05.05.2023
13.	Lipids. Basic concepts of lipid metabolism	12.05.2023
14.	Five membered heterocyclic compounds – furan, thiophene, pyrrole, pyrazole, imidazole, thiazole and their biologically active derivatives	19.05.2023
15.	Heterocyclic compounds with six-membered ring and fused rings. Nucleic acids	26.05.2023

Lecturer: Assoc. Prof. Y. Uzunova, PhD
2.02.2023