Federal State Budgetary Educational Institution of Higher Education «North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian Federation

Department of biological chemistry

Approved Head of the department, associate professor

associate professor

A. E. Gurina

"3" Felpuny 2022 year.

Rating

<u>Discipline</u>	<u>of biological</u>	chemistry-	biochemistry	of the	oral	cavity
Course		1				
Dentistry	faculty					

for the spring semester 2021-2022 school year

№	Date	The title of the topic		Marks	
			theory	practice	
1.	15.02.22	Introductory lesson. Proteinogenic amino acids: structure, properties, classification. The role of oxy-amino acids in the formation of connective tissue proteins.		5	
2.	15.02.22	Chemistry of simple proteins, structural organization of a protein molecule. Physico-chemical properties of simple proteins.	5	5	
3.	22.02.22	Chemistry of complex proteins: classification, representatives, characteristics of prosthetic groups.		5	
4.	22.02.22	Glycoproteins, their role in the formation of bone and tooth tissue. Proteoglycans and glycosaminoglycans of oral cavity tissues.		-	
5.	01.03.22	Structure and properties of collagen proteins of oral cavity tissues. Collagen, structure, biosynthesis.	5	-	
6.	01.03.22	Structure and properties of noncollagen proteins of oral cavity tissues. Adhesive and anti-adhesive proteins.	5	-	
7.	11.03.22	Module for the topic: "Chemistry and functions of proteins".		5	
8.	11.03.22			5	
9.	15.03.22	Vitamins as coenzymes. Water-soluble vitamins.		5	
10.	15.03.22	Regulation of enzymes activity. Enzymes activators and inhibitors. Medical aspects of enzymology.	5	5	
11.	22.03.22	Module for the topic: "Enzymes".	10	5	
12.	22.03.22			- 1	
13.	29.03.22	Fat-soluble vitamins. Participation in the formation of oral cavity tissues.	5	5	
14.	29.03.22			-	

Total		285		
30.	24.05.22	Module for the topic: "Lipid metabolism".	10	5
29.	24.05.22	Cholesterol metabolism. Quantitative determination of cholesterol in blood serum. Transport forms of lipids. Pathology of lipid metabolism.	5	5
28.	17.05.22	The exchange of simple and complex lipids: TAG and phospholipids.	5	-
27.	17.05.22	Ketone body metabolism: biosynthesis and catabolism. Determination of ketone bodies in urine.	5	5
26.	10.05.22	Metabolism of higher fatty acids: oxidation and biosynthesis.	5	5
25.	10.05.22	Digestion and absorption of lipids in the gastrointestinal tract: conditions, factors. Characteristics of the stages.	5	5
24.	03.05.22	Module for the topic: "Metabolism of carbohydrates".		5
23.	03.05.22	Disorders of carbohydrate metabolism: diabetes mellitus. Glycogenoses.	5	-
22.	26.04.22	Regulation of blood glucose. Synthesis and mobilization of glycogen in the liver. Gluconeogenesis.	5	5
21.	26.04.22	Aerobic glycolysis: indirect oxidation of glucose. The pentose cycle and its biological significance.		-
20.	19.04.22	Aerobic glycolysis: direct oxidation of glucose.	5	5
19.	19.04.22	Anaerobic oxidation of glucose: glycolysis, stages, the concept of glycolytic oxidoreduction.	5	5
18.	12.04.22	Structure, properties and functions of carbohydrates. Digestion of carbohydrates in the gastrointestinal tract.	5	5
17.	12.04.22	1 80		5
16.	05.04.22	Tricarboxylic acid cycle. Determination of succinate dehydrogenase activity.		5
15.	05.04.22	Energy exchange. Biological oxidation. Oxidative phosphorylation.	5	5

Assistant of the department

| 3 | Kaitukova D.I.
| 2022 year.