


**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

 A. E. Gurina
" 3 " February 2022 year.

Calendar-thematic plan of lectures

Discipline of biological chemistry-biochemistry of the oral cavity

Course 1

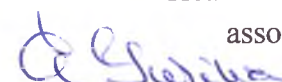
Dentistry faculty _____

for the spring semester 2021-2022 school year

№	Date	The title of the topic	Lecturer
1.	17.02.22	Introduction to biochemistry. Chemistry and structure of simple proteins. Classification and structure of complex proteins.	associate professor A. E. Gurina
2.	03.03.22	Biochemistry of the extracellular matrix. Structure and properties of collagen and non-collagen proteins.	associate professor A. E. Gurina
3.	17.03.22	Enzymes as biocatalysts. Mechanisms of action of enzymes. Enzymes classification.	associate professor A. E. Gurina
4.	31.03.22	Regulation of enzyme activity. Medical aspects of enzymology.	associate professor A. E. Gurina
5.	14.04.22	Introduction to metabolism. Biological oxidation. Oxidative phosphorylation.	associate professor A. E. Gurina
6.	28.04.22	Common pathways of catabolism. Krebs cycle.	associate professor A. E. Gurina
7.	12.05.22	The digestion of carbohydrates in the gastrointestinal tract. Absorption of digestion products. Anaerobic oxidation of glucose, glycolytic oxidoreduction. Aerobic oxidation of glucose. The pentose phosphate cycle.	associate professor A. E. Gurina
8.	26.05.22	Regulation of blood sugar. Glycogen metabolism: synthesis and breakdown of glycogen in liver and muscles. Gluconeogenesis.	associate professor A. E. Gurina
9	09.06.22	Digestion of lipids in the gastrointestinal tract: stages characteristic. Exchange of higher fatty acids: biosynthesis and oxidation. Cholesterol metabolism.	associate professor A. E. Gurina

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