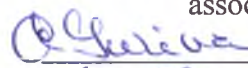


**Federal State Budgetary Educational Institution of Higher Education
«North-Ossetia State Medical Academy» of the Ministry of Healthcare of the Russian
Federation**

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

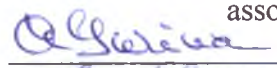
Course 2

Medical faculty

for the spring semester 2021-2022 school year

№	Date	The title of the topic	Lecturer
1.	09.02.22	Digestion of lipids in gastrointestinal tract. Stages, localization, factors. Emulsification of lipids. Enzymatic hydrolysis of lipids, the features of the process. The absorption of the products of hydrolysis, the formation of transport forms (chylomicrons).	associate professor A. E. Gurina
2.	09.03.22	Exchange of higher fatty acids: oxidation and synthesis. Exchange of ketone bodies. Regulation of processes.	associate professor A. E. Gurina
3.	23.03.22	Cholesterol metabolism: synthesis and catabolism. Transport forms of cholesterol, their utilization at the tissue level. Hypercholesterolemia, biochemical basis of atherosclerosis development. Lipidoses.	associate professor A. E. Gurina
4.	06.04.22	Digestion of proteins in gastrointestinal tract. Common ways of AA catabolism. Transamination, the phases of this process. Biogenic amines, their synthesis, biological role and storage.	associate professor A. E. Gurina
5.	20.04.22	Ways of formation and neutralization of ammonia. Synthesis of urea and creatinine.	associate professor A. E. Gurina
6.	04.05.22	Nucleoprotein exchange: synthesis and breakdown of purine and pyrimidine nucleoproteins. Pathology of the exchange.	associate professor A. E. Gurina
7.	18.05.22	The chromoproteins metabolism: synthesis and breakdown. Porphyrria. Jaundices. Iron metabolism in the body.	associate professor A. E. Gurina
8.	01.06.22	The hormonal role of the regulation of metabolic processes: the level of chemical communication that integrates hormones and mediators in the focus. Protein-peptide hormones: receptors, second messengers (messengers), biological effects.	associate professor A. E. Gurina
9.	15.06.22	Steroid hormones: synthesis, mechanism of hormonal effect realization. Medical aspects of endocrinology.	associate professor A. E. Gurina

Head of the department
associate professor

 A. E. Gurina
" 3 " February 2022 year