

**Thematic plan for lecture-type classes  
in the discipline "Biochemistry, biochemistry of the oral cavity"  
for students of 2025 year of admission  
under the educational programme  
31.05.03 Dentistry,  
specialisation (profile) Dentistry,  
(Specialist's degree),  
form of study full-time  
for the 2025-2026 academic year**

№	Topics of lecture-type classes	
<b>second semester</b>		
1.	Subject of biochemistry. Structural organization and physicochemical properties of proteins.	2
2.	Conformational changes in the structure of protein. Action of proteins.	2
3	Biological oxidation.	2
<b>third semester</b>		
4	Matrix biosynthesis. Nucleic acids are carriers of genetic information. Relationship between structure and function. Replication, repair and recombination of DNA. RNA transcription and processing. Translation and post-translational protein modification.	2
5	The main systems of intercellular communication. Classification of hormones. Target cells and cellular hormone receptors.	2
6	Biochemistry of the tooth. Types of tooth tissues. Organic and mineral phases of tooth tissues. Biochemistry of the oral fluid. Physicochemical properties of saliva. Saliva proteins. Enzymes of saliva. Inorganic substances of saliva. Protective systems of saliva.	2

Considered at the meeting of the department of "29" \_05\_ 2025, protocol No 12

Head of the Department of Basic  
and Clinical Biochemistry



O.V. Ostrovskij.