Thematic plan for lecture-type classes in discipline «Biochemistry» for students of 2025 year of admission under the educational programme 31.05.01 General medicine, specialisation (profile) General medicine (Specialist's degree), form of study full-time for the 2025 - 2026 academic year

№	Topics of lecture-type classes	Hours (academic)
second semester		
1	Introduction. Subjects and tasks of biochemistry. The structure of	2
	proteins. Classification of proteins. Biological functions of proteins.	
2	Introduction to the energy metabolism of the cell. Biological oxidation.	2
	Mitochondrial electron transfer chain.	
3	Introduction to metabolism. The metabolism of proteins, fats and	2
	carbohydrates.	
third semester		
4	Biochemical bases of storage and transmission of genetic information.	2
5	Basic intercellular communication sy6stems. Classification of hormones.	2
	Target cells and cellular hormone receptors. Mechanisms of transmission	
	of hormonal signals to cells.	
6	Metabolic processes in organs and tissues using the example of	2
	erythrocyte metabolism.	
	Total	12

Considered at the department meeting fundamental and clinical biochemistry,

Ogol

protocol of «29» may 2025 y., № 12.

Head of the Department of Basic and Clinical Biochemistry

O.V. Ostrovskij.