

**Thematic plan for lection-type classes  
in discipline "Pathology"  
for students of 2023 year of admission  
under the educational program  
33.05.01 Pharmacy,  
specialization (profile) Pharmacy (specialty)  
Full-time  
for the 2025-2026 academic year**

<b>№</b>	<b>Thematic blocks (The 3rd semester)</b>	<b>Hours (academic)</b>
1	Cell pathology. Reversible and irreversible cellular damage. Protein and water-electrolyte metabolism pathology.	2
2	Lipid metabolism disorders. Carbohydrate metabolism disorders. Metabolic disorders. Pigment and mineral metabolism disorders.	2
3	Necrosis. Apoptosis	2
4	Peripheral circulatory and microcirculatory disorders. Arterial and venous congestion. Bleeding, hemorrhages, plasmorrhage.	2
5	Peripheral circulatory and microcirculatory pathologies. Thrombosis and embolism. DIC syndrome.	2
6	Inflammation. Acute inflammation.	2
7	Inflammation. Chronic inflammation. Systemic inflammatory response. Endotoxemia.	2
8	Immunopathological processes. Hypersensitivity reactions. Immunodeficiencies and autoimmune diseases. Amyloidosis.	2
9	Adaptation mechanisms, hypertrophy, hyperplasia. Hypoxia and hyperoxia. Extreme conditions. Regeneration. Wound healing.	2
10	Tissue growth pathology. Tumor process. Epithelial tumors.	2
11	Tumors of mesenchymal tissues. Classification, morphology	2
12	Tumors of melanin-producing and neural tissue. Classification. Morphological characteristics.	2
13	Hemoblastoses. Lymphomas. Classification, clinical and morphological characteristics.	2
14	Blood pathology. Anemias: classification, etiology, pathogenesis, clinical and morphological characteristics.	2
15	Heart and vascular diseases. Atherosclerosis and arteriosclerosis.	2
16	Heart and vascular diseases. Arterial hypertension.	2
17	(The 4th semester) Ischemic heart disease.	2
18	Rheumatic diseases. Rheumatism. Heart defects. Heart failure.	2

19	Lung diseases. Acute lung diseases.	2
20	Lung diseases. Chronic lung diseases. Bronchial asthma. Lung cancer.	2
21	Esophagitis. Gastritis. Enteritis. Colitis. Appendicitis. Peptic ulcer. Gastrointestinal tract. Stomach cancer.	2
22	Liver disease. Jaundice. Hepatosis. Hepatitis. Liver cirrhosis. Liver cancer. Cholecystitis. Gallstones.	2
23	Kidney and urinary tract pathology. Glomerulonephritis. Tubulopathies. Kidney stones.	2
24	Infectious process. Principles of classification of infectious diseases. Tuberculosis. Sepsis.	2
25	Influenza. Parainfluenza. Measles. Scarlet fever. Diphtheria.	2
	Total	50

Considered at the meeting of the Department of Pathological Anatomy  
protocol of May 29, 2025, protocol №. 10

Head of the Department



A.V. Smirnov