

THE PLANNED SCHEDULE OF LECTURE BY PATHOPHYSIOLOGY
5 semester 2026 – 2027 of academic year Specialty 31.05.01 General Medicine

Item No.	Lecture title	List of educational questions for the lecture
1. 14.09.2026 Associate Professor L.D. Erkenova	Introduction. Subject and tasks of pathophysiology. Research methods. General theory of disease.	1. Pathological physiology as a science and as a medical discipline, subject, tasks and methods of study. The role of pathological physiology in the general system of physician training. 2. The concept of "general nosology". General etiology, the role of damaging environmental factors in the origin of the disease. Concepts of the origin of the disease. 3. General pathogenesis: initial link, leading link of pathogenesis, cause-and-effect relationship, vicious circle in the pathogenesis of the disease. 4. Stages, outcomes of the disease. General principles of disease therapy.
2. 28.09.2026 Associate Professor L.D. Erkenova	The doctrine of the reactivity of the organism, its role in disease. Typical disorders of carbohydrate metabolism. Typical disorders of fat metabolism.	1. Definition of the concept of "reactivity of the organism". 2. Types of reactivity according to A.D. Ado. 3. Criteria of individual reactivity. 4. Factors of individual reactivity. 5. Mechanisms of individual reactivity. 6. Typical disorders of carbohydrate metabolism. 7. Typical disorders of fat metabolism.
3. 12.10.2026 Associate Professor L.D. Erkenova	Pathophysiology of water-salt metabolism.	1. Disturbances in water-salt metabolism (dyshydria). 2. Hypohydration, types, etiology, pathogenesis. Correction. 3. Hyperhydration, types, etiology, pathogenesis. Correction. 4. The concept of "edema". Types, etiology, pathogenesis.
4. 26.10.2026 Associate Professor L.D. Erkenova	Inflammation. Acute inflammation. Acute phase response. Fever.	1. Definition of the concept "Inflammation", etiology, pathogenesis of acute inflammation. 2. Biological role of acute inflammation. Principles of therapy. 3. The concept of "acute phase response" (APR). Etiology, pathogenesis. Manifestations. 4. Fever as a reaction to APR. Causes, pathogenesis. 5. The difference between fever and overheating.
5. 09.11.2026 Associate Professor L.D. Erkenova	Pathophysiology of the tumor process.	1. Definition of the concept "tumor process". 2. Etiology of the tumor process, types of carcinogens. 3. Stages of carcinogenesis. 4. Types of tumors. Atypisms of the tumor process. 5. Antineoplastic resistance of the organism
6. 23.11.2026 L.D. Erkenova	Typical disorders of immunological reactivity. Allergy.	1. Definition of the concept "Allergy". 2. Classification of allergies by etiology and pathogenesis. 3. Causes and mechanisms of development by stages of individual types of allergic reactions. 4. The importance of allergic reactions of the body. Principles of therapy of allergic diseases.
7. 07.12.2026 E.V. Eliseeva	Typical disorders of the external respiratory system. Respiratory failure, its types, criteria.	1. The concept of "external respiration". 2. Types of hypoxia in disorders of external respiration (exogenous respiratory hypoxia). Etiology, pathogenesis. 3. Blood gas composition in hypoxia with external respiration disorders. 4. The concept of "respiratory failure". Types by etiology and pathogenesis. Criteria for individual types of respiratory failure.