

Planned schedule of independent work of students 3 year Specialty 31.05.01 General Medicine for the 2024-2025 academic year (students can use the classroom (№1 - 5) from 17-00 hours).

№ unit	The name of the theme	Hour	Questions
5 semester			
1. 02.09.2024 – 06.09.2024	Introduction. Pathological physiology as a medical discipline.	2	1. Pathological physiology as science and a medical discipline. Subject of study. 2. Tasks of pathophysiology.
		1	1. Research of methods. 2. The role to pathological physiology in system of the education.
2. 09.09.2024 – 13.09.2024	General nosology. General etiology. General pathogenesis. The role of the damaging environmental factors in the genesis of the disease. Effect of changes in atmospheric pressure.	2	1. The concept of "general nosology", "general etiology," "general pathogenesis." 2. The definition of "disease." Stage and outcome of the disease.
		1	1. The role of the damaging environmental factors in the genesis of the disease. 2. Effect of changes in atmospheric pressure on the body.
3. 16.09.2024 – 20.09.2024	General etiology. General pathogenesis. The damaging effects of radiant energy.	2	1. The essence of the concept of "The pathogenesis of the disease." 2. "The initial link in the pathogenesis", "cause-and-effect relationship in the pathogenesis", "leading element of pathogenesis," "vicious circle" in the pathogenesis of the disease. 3. Radiation sickness. Etiology, pathogenesis, forms, effects on the body.
		1	1. Blood picture in stages of bone marrow form of radiation sickness. 2. Sunstroke. The etiology and pathogenesis.
4. 23.09.2024 – 27.09.2024	Cell damage as a general principle of development of the disease.	2	1. The levels of damage in diseases. 2. The causes cell damage. Exogenous and endogenous factors. 3. Specific mechanisms of cell damage.
		1	1. Non-specific mechanisms of cell damage. 2. Manifestations of cell damage, effects. Types of cell death.
5. 30.09.2024 – 04.10.2024	The reactivity of the organism. Its role in the disease	2	1. The definition of "reactivity". 2. Types of reactivity. 3. Factors individual reactivity.
		1	1. The concepts of the mechanisms of individual-reactivity. 2. Role reactivity in the disease.
6. 07.10.2024 – 11.10.2024	General typical pathologic processes. Typical carbohydrate metabolism.	2	1. The definition of "diseases", "typical pathological process", "pathological condition". 2. Phases metabolic disorders.
		1	1. Types of carbohydrate metabolism. The concept of "Diabetes mellitus type I and II." 2. Disorders of lipid and protein metabolism in diabetes mellitus.
7. 14.10.2024 – 18.10.2024	Typical disorders of water-salt metabolism.	2	1. Types of disorders of water-salt metabolism (dyskinesia). 2. Hypohydration. Types, causes, mechanisms of development, effects. 3. Hyperhydration. Types, causes, mechanisms of development, effects.
		1	1. "Edema". The definition, types, causes, mechanisms of development. The role of Starling in understanding the mechanisms of edema. 2. Classification of edema in pathogenesis.
8. 21.10.2024 – 25.10.2024	Colloquium №1.	2	1. Colloquium on the questions of section 1 "General nosology" and some questions of section 2 "Typical pathological processes".
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			nosology” and some questions of section 2 “Typical pathological processes”.
9. 28.10.2024 – 01.11.2024	General typical pathologic processes. Changes in regional blood flow and microcirculation. Thrombosis. Embolism.	2	1. Arterial and venous hyperemia. Etiology, pathogenesis, symptoms, consequences. 2. Ischemia, etiology, pathogenesis, symptoms, effects on the body.
		1	1. Thrombosis definition. Etiology, pathogenesis, stage of thrombosis. Types of thrombus, outcomes, consequences. 2. Embolism definition. Etiology, pathogenesis, types, effects.
10. 04.11.2024 – 08.11.2024	Inflammation. Local and general inflammation. The biological significance. Acute inflammation. Chronic inflammation.	2	1. Inflammation. Definition of the concept. 2. Causes, mechanisms of acute inflammation. 3. Stage outcomes, principles of treatment of acute inflammation. 4. Local clinical signs, the mechanism of their development and general changes in the body in acute inflammation
		1	2. The concept of "chronic inflammation", types, etiology and pathogenesis. The difference between acute from chronic inflammation. The consequence of chronic inflammation.
11. 11.11.2024 – 15.11.2024	Acute phase response. Fever.	2	1. Acute phase response, determining features mediators, meaning. 2. Fever as part of the acute phase response.
		1	1. Etiology, pathogenesis, stage biological significance. 2. The similarities and differences of fever and overheating.
12. 18.11.2024 – 22.11.2024	Neoplastic process.	2	1. Neoplastic process, the definition. 2. The etiology of the tumor process, the types of carcinogens. 3. The pathogenesis of cancer. The concepts of "proto-oncogenes", "oncogenes". The mechanisms of carcinogenesis. Stage.
		1	1. Types of tumors. Atypia of cancer. 2. Antineoplastic resistance of the body, types, mechanisms.
13. 25.11.2024 – 29.11.2024	Extreme states.	2	1. The concept of "extreme conditions". 2. Types of extreme conditions.
		1	1. Shock, collapse, coma. Causes, mechanisms of development, effects.
14. 02.12.2024 – 06.12.2024	Typical disturbance of immunological reactivity. Allergy.	2	1. Allergy definition. 2. Classification of etiology and pathogenesis.
		1	1. 1, 2, 3, 4 types of allergic reactions on the classification of Gell, Coombs. Causes, mechanisms of development in stages. Manifestations, consequences.

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