

**Thematic plan of seminar-type classes
in discipline «Pathophysiology»
for students of 2024 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**

№	Thematic blocks	Hours (academic) ¹
4 semester		
1.	Introduction. Subject, sections, and methods of pathophysiology.	4
2.	Basic concepts of general nosology.	4
3.	Reactivity and resistance of the organism. Their importance in pathology. Heredity, variability, and pathology.	4
4.	Pathogenic action of external and internal environmental factors. Typical disorders of the immunogenic reactivity of the organism.	4
5.	Cell damage.	4
6.	Control work № 1.	4
7.	Typical disorders of organ-tissue blood circulation and microcirculation (hyperemia, ischemia, stasis).	4
8.	Typical disorders of organ-tissue blood circulation and microcirculation (thrombosis and embolism).	4
9.	Typical metabolic disorders. Disorders of water-salt metabolism.	4
10.	Typical metabolic disorders. Disorders of carbohydrate metabolism.	4
11.	Control work № 2.	4
12.	Pathophysiology of inflammation.	4
13.	Pathophysiology of the acute phase response. Fever. Hyper- and hypothermia.	4
14.	Immunological conditions. Allergy.	4
15.	Control work № 3.	4
	Total	60

¹ – one thematic block includes several classes, the duration of one class is 45 minutes, with a break between classes of at least 5 minutes

Considered at the department meeting Pathophysiology, Clinical Pathophysiology, protocol of «23» May 2025 г. № 13.

Head of the Department

P.A. Kudrin

R.A. Kudrin

**Assessment tools for conducting attestation
in discipline «Pathophysiology »
for students of 2024 year of admission
under the educational programme
31.05.01 General Medicine,
specialisation (profile) General Medicine
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№	Thematic blocks	Hours
16.	Typical tissue growth disorders.	4
17.	Pathophysiology of extreme and terminal conditions	4
18.	Pathological physiology of red blood.	4
19.	Violations of the physical and chemical properties of blood.	4
20.	Pathology of leukocyte system.	4
21.	Control work № 4.	4
22.	Pathological physiology of external respiration.	4
23.	Pathophysiology of the heart.	4
24.	Pathophysiology of vascular tone. Etiology and pathogenesis of	4
25.	Pathological physiology of digestion.	4
26.	Liver pathology.	4
27.	Control work № 7.	4
28.	Pathophysiology of the endocrine system.	4
29.	Pathophysiology of stress.	4
30.	Pathophysiology of the nervous system.	4
31.	Kidney pathophysiology.	4
32.	Control work № 8. Final lesson. Final testing.	4
	Total	68

¹ – topic

² – essential content

³ – one thematic block includes several classes, the duration of one class is 45 minutes, with a break between classes of at least 5 minutes

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