

# THEMATIC PLAN OF LECTURES IN PATHOLOGICAL PHYSIOLOGY

for 3rd year students of FIS

Educational Institution «Gomel State Medical University»

for V semester 2025/2026 academic year

№	Name of topics, content of lectures	Number of hours	Date, lector
1.	<b>Introduction to the discipline "Pathological Physiology". General etiology and pathogenesis.</b> 1. Subject, tasks, methods of pathological physiology. History of pathophysiology. 2. Basic concepts of general nosology. Typical pathological processes. Disease: classification, stages, outcomes. 3. The role of causes and conditions in the occurrence of diseases. Pathological system. 4. Pathogenesis. Leading links in pathogenesis and "vicious circles".	2	<b>10.02.26 13.00-14.25 Kidun K.A.</b>
2.	<b>Pathogenic effects of environmental factors on the human body. Stress</b> 1. Characteristics of the pathogenic effects of physical factors: general characteristics, pathogenesis, manifestations. 2. The concept of crush syndrome. 3. Effects of high and low temperatures: general characteristics, pathogenesis, manifestations. 4. Mechanisms of action of ionizing radiation. Radiosensitivity of cells. 5. Stress and "general adaptation syndrome".	2	<b>24.02.26 13.00-14.25 Kidun K.A.</b>
3.	<b>Inflammation</b> 1. Inflammation: etiology, stages. 2. Mechanisms of alteration. Inflammatory mediators. 3. Exudation, mechanisms. Types of exudates. 4. Phagocytosis: types, stages, mechanisms. 5. Proliferation, mechanisms. Stimulators and inhibitors of proliferation. Outcomes of inflammation.	2	<b>10.03.26 13.00-14.25 Kidun K.A.</b>
4.	<b>Infectious process. Fever</b> 1. Infectious process: types, general etiology and pathogenesis. 2. Sepsis: etiology, pathogenesis. 3. Etiology of fever. Pyrogens: classification, effects. 4. Pathogenesis of fever. Stages of fever. 5. Biological significance of febrile reaction.	2	<b>24.03.26 13.00-14.25 Kidun K.A.</b>
5.	<b>Tumor growth. Tumors</b> 1. Tumor etiology. Physical, chemical, biological carcinogens. 2. Modern concepts of molecular-genetic mechanisms of carcinogenesis. 3. Biological features of tumor growth. 4. Malignant and benign tumors. 5. Interaction between tumor and organism. Antineoplastic resistance.	2	<b>07.04.26 13.00-14.25 Kidun K.A.</b>