

Subject: Pathological Physiology 1
Study programme: General Medicine
Category of subject: Obligatory

Form of study: Lectures/seminars 2/3
Study form: Full-time study
Prerequisites: Medical Physiology 2

Semester: 5th
Completion of the course: Credit
Credits: 5

Department of Pathological Physiology, Faculty of Medicine, Pavol Jozef Šafárik University, Košice
Schedule of lectures and tutorials from Pathological Physiology 1 for General Medicine, Winter semester 2026/2027

W	Lecture (Tuesday 12 ¹⁵ -13 ⁴⁵ P2)		Lecturer	Practical lessons		Credit tests (other duties)
	Date	Topic		Date	Topic	
1.	15.9.	Teaching starts on September 16.		16.9.-18.9.	Introduction to Pathophysiology. Instructions General nosology, General etiology	Choosing presentation topics
2.	22.9.	Etiology II. Genetic diseases Non-mendelian heredity, Epigenetics	Lovásová	21.9.-25.9.	Genetics. Monogenic diseases, Chromosomal diseases, Polygenic diseases	Quiz, presentations, Case reports
3.	29.9.	Etiology III. Disorders of nutrition Obesity, Metabolic syndrome	Pallayová	28.9.-2.10.	Nutrition. Undernutrition, Eating disorders, Vitamins, Trace elements	Quiz, presentations, Case reports
4.	6.10.	Etiology IV. Disorders of internal homeostasis Fluid, Electrolyte, Acid-base homeostasis	Lovásová	5.10.-9.10.	Disorders of homeostasis. Acid-base disorders, compensation, Edemas	Protocol 1 Acid-base disorders
5.	13.10.	Pathogenesis I. Typical pathological processes Acute and chronic inflammation	Beňačka	12.10.-16.10.	Typical pathological processes I. Fever	Quiz, presentations, Case reports
6.	20.10.	Pathogenesis II. Carcinogenesis	Beňačka	19.10.-23.10.	Typical pathological processes II. Hypoxia, shock	Quiz, presentations, Case reports
7.	27.10.	Credit test 1		26.10.-29.10.	Credit test 1 Semester work instructions	Credit test 1
8.	3.11.	Pathogenesis IV. Disorders of consciousness Quantitative and qualitative disorders, terminal states	Beňačka	3.11.-6.11.	Typical pathological processes III. Pain, Immunology	Quiz, presentations, Case reports
9.	10.11.	Hematology I. Pathophysiology of leukocytes Leukemias, Nonmalignant disorders of leukocytes	Brenišin	9.11.-13.11.	Stress. Neurohumoral regulation, adaptation, stress diseases	Quiz, presentations, Case reports
10.	17.11.	Rector's day off		16.11.-20.11.	Hematology I. Basic manifestations of hematologic disorders, hematological parameters	Quiz, presentations, Case reports
11.	24.11.	Hematology II. Pathophysiology of hemostasis Disorders of thrombocytes and hemocoagulation	Brenišin	23.11.-27.11.	Hematology II. Anemia	Protocol 2 Anemia
12.	1.12.	Renal and urinary tract. Glomerulonephritis, tubular disorders, acute kidney injury, chronic kidney disease	Pallayová	30.11.-4.12.	Renal and urinary tract. Basic manifestations of kidney disorders, nephrolithiasis	Quiz, presentations, Case reports
13.	8.12.	Credit test 2		7.12.-11.12.	Credit test 2 Ageing	Credit test 2
14.	15.12.	Cellular pathophysiology, cell death	Brenišin	14.12.-18.12.	Evaluation of semester, credits	

October 30 – Dean's day off, November 2 – Rector's day off, November 17 – Rector's day off

Prof. MUDr. Mária Pallayová, PhD