University of Belgrade
FACULTY OF MEDICINE

MEDICAL PATHOPHYSIOLOGY – WINTER (V) SEMESTER 2025/2026.

Department for Pathological Physiology

University of Belgrade Faculty of Medicine

	TIME	PLACE
LECTURES	Wednesdays, 10:30 – 13:15	Classroom 1, Head Building, dr Subotića 8, 2nd floor
SEMINARS	**Group 1 –** Tuesdays, 14:30 – 16:00	**Group 1 –** Lecture Hall, Pathophysiology Building, dr Subotića 9, ground floor
	Group 2 – Tuesdays, 14:30 – 16:00	**Group 2 –** Classroom 2*, Head Building, dr Subotića 8, 2nd floor
	Group 3 – Mondays, 14:30 – 16:00	**Group 3 –** Lecture Hall, Pathophysiology Building, dr Subotića 9, ground floor
	Group 4 – Mondays, 14:30 – 16:00	**Group 4 –** Classroom 2*, Head Building, dr Subotića 8, 2nd floor
LABS	**Group 1 –** Mondays, 14:30 – 16:00	**Group 1 –** Lab Classroom A, Pathology Building, dr Subotića 1, 2nd floor
	Group 2 – Mondays, 14:30 – 16:00	**Group 2 –** Lab Classroom B, Pathology Building, dr Subotića 1, 2nd floor
	Group 3 – Tuesdays, 14:30 – 16:00	**Group 3 –** Lab Classroom A, Pathology Building, dr Subotića 1, 2nd floor
	Group 4 – Tuesdays, 14:30 – 16:00	**Group 4 –** Lab Classroom B, Pathology Building, dr Subotića 1, 2nd floor

*** Classroom 2 (Head building, dr Subotića 8, 2nd floor) is currently under renovation and it should be available starting Monday, November 3rd 2025. Seminar course for Group 2 and Group 4 will be held in Classroom 2 (Head building, dr Subotića 8, 2nd floor). If for unforeseeable reasons Classroom 2 is still unavailable, then we will use Classroom 1, but you will be informed about the change of venue in due time.**

LECTURES		SEMINAR COURSE		*LABORATORY COURSE*	
		SEMINAR TOPIC		*LAB TOPIC*	
Lecture date		Seminar date	Seminar place	Lab date	Lab place
Lecture time	*Lecture topics*	Seminar time		Lab time	
WEEK I (3-7.11.2025.)					
5.11.2025. **10:30-11:00**	***S. Spasić*** *(30 min)* • *Introduction to the Medical Pathophysiology course* (1 class) • Introduction to pahtophysiology. Aetiology. Pathogenesis. • Genetic and congenital disorders. (2 class) • Systemic and local effects of low environmental temperature • Systemic and local effects of high environmental temperature	**PATHPHYSIOLOGY OF CELLULAR ADAPTATION AND DAMAGE**		***PHYSICAL AETIOLOGICAL FACTORS I***	
11:00 – 11:45		**3.11.2025.** **14:30–16:00**	**Group 3** (Lecture Hall)	**3.11.2025.** **14:30–16:00**	**Group 1** (Lab Classroom A)
		3.11.2025. **14:30–16:00**	**Group 4** (Classroom 2)	**3.11.2025.** **14:30–16:00**	**Group 2** (Lab Classroom B)
11:45 – 13:15		**4.11.2025.** **14:30–16:00**	**Group 1** (Lecture Hall)	**4.11.2025.** **14:30–16:00**	**Group 3** (Lab Classroom A)
		4.10.2024 **14:30–16:00**	**Group 2** (Classroom 2)	**4.10.2024** **14:30–16:00**	**Group 4** (Lab Classroom B)

WEEK II (10-14.11.2025.)				*Armistice Day (Tuesday, 11.11.2025.)*
12.11.2025. **10:30-11:15** **11:15-12:00** **12:00-12:45**	(1 class) • Mechanical factors (1 class) • Electricity. Sound and ultrasound (1 class) • Disorders due to chemical factors	**CELLULAR AND SYSTEMIC HYPOXIA**		***PHYSICAL AETIOLOGICAL FACTORS II***	
		10.11.2025. **14:30–16:00**	**Group 3** (Lecture Hall)	**10.11.2025.** **14:30–16:00**	**Group 1** (Lab Classroom A)
		10.11.2025. **14:30–16:00**	**Group 4** (Classroom 1*)	**10.11.2025.** **14:30–16:00**	**Group 2** (Lab Classroom B)
		13.11.2025. **15:45-17:15**	**Group 1** (Lecture Hall)	**13.11.2025.** **15:45-17:15**	**Group 3** (Lab Classroom A)
		13.11.2025. **15:45-17:15**	**Group 2** (Institute library) Institute for pathophysiology, dr Subotića 9, 1st floor	**13.11.2025.** **15:45-17:15**	**Group 4** (Lab Classroom B)
WEEK III (17-21.11.2025.)					
19.11.2025. **10:30 – 12:00** **12:00 – 12:45**	(2 classes) • Disorders due to biologic agents. • Fever (1 class) • Inflammation	**PATHOPHYSIOLOGIC ASPECTS OF RADIATION**		***ELECTRICAL CURRENT CHEMICAL AETIOLOGICAL FACTORS***	
		17.11.2025. **14:30–16:00**	**Group 3** (Lecture Hall)	**17.11.2025.** **14:30–16:00**	**Group 1** (Lab Classroom A)
		17.11.2025. **14:30–16:00**	**Group 4** (Classroom 2)	**17.11.2025.** **14:30–16:00**	**Group 2** (Lab Classroom B)
		18.11.2025. **14:30–16:00**	**Group 1** (Lecture Hall)	**18.11.2025.** **14:30–16:00**	**Group 3** (Lab Classroom A)
		18.11.2025. **14:30–16:00**	**Group 2** (Classroom 2)	**18.11.2025.** **14:30–16:00**	**Group 4** (Lab Classroom B)

<table>
<tr><td colspan="4">WEEK IV (24-28.11.2025.)</td></tr>
<tr><td rowspan="4">26.11.2025.

10:30 – 12:00

12:00 – 12:45</td><td rowspan="4">(2 classes)
• Specific defence. Autoimmune diseases

(1 class)
• Alterations of immunologic reactions</td><td>PATHOPHYSIOLOGY OF ACUTE AND CHRONIC STRESS
24.11.2025. 14:30–16:00 Group 3 (Lecture Hall)</td><td>ALTERATIONS OF LOCAL CIRCULATION
24.11.2025. 14:30–16:00 Group 1 (Lab Classroom A)</td></tr>
<tr><td>24.11.2025. 14:30–16:00 Group 4 (Classroom 2)</td><td>24.11.2025. 14:30–16:00 Group 2 (Lab Classroom B)</td></tr>
<tr><td>25.11.2025. 14:30–16:00 Group 1 (Lecture Hall)</td><td>25.11.2025. 14:30–16:00 Group 3 (Lab Classroom A)</td></tr>
<tr><td>25.11.2025. 14:30–16:00 Group 2 (Classroom 2)</td><td>25.11.2025. 14:30–16:00 Group 4 (Lab Classroom B)</td></tr>
<tr><td colspan="4">WEEK V (1-5.12.2025.)</td></tr>
<tr><td rowspan="4">3.12.2025.

10:30 – 12:00

12:00 – 12:45</td><td rowspan="4">(2 classes)
• Non-specific defence
• The stress response

(1 class)
• Disorders of carbohydrate metabolism</td><td>IMPLICATION OF ALTERATIONS OF VITAMINS AND TRACE ELEMENTS
1.12.2025. 14:30–16:00 Group 3 (Lecture Hall)</td><td>INFLAMMATORY PROCESS I
1.12.2025. 14:30–16:00 Group 1 (Lab Classroom A)</td></tr>
<tr><td>1.12.2025. 14:30–16:00 Group 4 (Classroom 2)</td><td>1.12.2025. 14:30–16:00 Group 2 (Lab Classroom B)</td></tr>
<tr><td>2.12.2025. 14:30–16:00 Group 1 (Lecture Hall)</td><td>2.12.2025. 14:30–16:00 Group 3 (Lab Classroom A)</td></tr>
<tr><td>2.12.2025. 14:30–16:00 Group 2 (Classroom 2)</td><td>2.12.2025. 14:30–16:00 Group 4 (Lab Classroom B)</td></tr>
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<tr><th colspan="4">WEEK VI (8-12.12.2025.)</th></tr>
<tr><td>10.12.2025.

10:30 – 11:15

11:15 – 12:45</td><td>(1 class)
• Metabolism alterations of proteins

(2 classes)
• Pathophysiologic aspects of enzymopathies.
• Metabolism alterations of lipids.</td><td>METABOLIC AND SYSTEMIC ALTERATIONS IN DIABETES MELLITUS
8.12.2025. 14:30–16:00 Group 3 (Lecture Hall)
8.12.2025. 14:30–16:00 Group 4 (Classroom 2)
9.12.2025. 14:30–16:00 Group 1 (Lecture Hall)
9.12.2025. 14:30–16:00 Group 2 (Classroom 2)</td><td>INFLAMMATORY PROCESS II
8.12.2025. 14:30–16:00 Group 1 (Lab Classroom A)
8.12.2025. 14:30–16:00 Group 2 (Lab Classroom B)
9.12.2025. 14:30–16:00 Group 3 (Lab Classroom A)
9.12.2025. 14:30–16:00 Group 4 (Lab Classroom B)</td></tr>
<tr><th colspan="4">WEEK VII (15-19.12.2025.)</th></tr>
<tr><td>17.12.2024.

10:30 – 11:15

11:15 – 12:45</td><td>(1 class)
• Aetiopathogenesis of hypercholesterolemia

(2 classes)
• Extracellular and intracellular dehydration.
• Water excess and oedema</td><td>OBESITY AND NUTRITION
15.12.2025. 14:30–16:00 Group 3 (Lecture Hall)
15.12.2025. 14:30–16:00 Group 4 (Classroom 2)
16.12.2025. 14:30–16:00 Group 1 (Lecture Hall)
16.12.2025. 14:30–16:00 Group 2 (Classroom 2)</td><td>REACTIONS OF HYPERSENSITIVITY
15.12.2025. 14:30–16:00 Group 1 (Lab Classroom A)
15.12.2025. 14:30–16:00 Group 2 (Lab Classroom B)
16.12.2025. 14:30–16:00 Group 3 (Lab Classroom A)
16.12.2025. 14:30–16:00 Group 4 (Lab Classroom B)</td></tr>
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WEEK VIII (22-26.12.2025.)			
24.12.2025. **10:30-11:15** **11:15-12:00** **12:00-12:45**	(1 class) • Alterations in sodium, chloride and potassium balance (1 class) • Mechanisms of calcium, phosphate and magnesium imbalances (1 class) • Malignant tumors	**DYNAMIC OF ATHEROGENESIS** **22.12.2025. 14:30–16:00** **Group 3** (Lecture Hall) **22.12.2025. 14:30–16:00** **Group 4** (Classroom 2) **23.12.2025. 14:30–16:00** **Group 1** (Lecture Hall) **23.12.2025. 14:30–16:00** **Group 2** (Classroom 2)	***PATHOPHYSIOLOGY OF AUTOIMMUNE DISEASES*** **22.12.2025. 14:30–16:00** **Group 1** (Lab Classroom A) **22.12.2025. 14:30–16:00** **Group 2** (Lab Classroom B) **23.12.2025. 14:30–16:00** **Group 3** (Lab Classroom A) **23.12.2025. 14:30–16:00** **Group 4** (Lab Classroom B)
WEEK IX (29-31.12.2025.)			
31.12.2025. **10:30 – 12:00**	(2 classes) • Shock. Aetiopathogenesis. • Reversible and irreversible shock.	**SYSTEMIC CHANGES IN ORGANISM WITH MALIGNANT TUMOR** **29.12.2025. 14:30–16:00** **Group 3** (Lecture Hall) **29.12.2025. 14:30–16:00** **Group 4** (Classroom 2) **30.12.2025. 14:30–16:00** **Group 1** (Lecture Hall) **30.12.2025. 14:30–16:00** **Group 2** (Classroom 2)	***ALTERATIONS OF PROTEIN METABOLISM*** **29.12.2025. 14:30–16:00** **Group 1** (Lab Classroom A) **29.12.2025. 14:30–16:00** **Group 2** (Lab Classroom B) **30.12.2025. 14:30–16:00** **Group 3** (Lab Classroom A) **30.12.2025. 14:30–16:00** **Group 4** (Lab Classroom B)
WEEK (5-9.01.2026.)			*Christmas Holiday (Wednesday, 7.01.2025.)*
	NO LECTURES	**NO SEMINARS**	**NO LABS**

<table>
<tr><td colspan="4">WEEK X (12-16.01.2026.)</td></tr>
<tr><td colspan="4">First colloquium, Friday, 16.01.2025., 17:00h, amphitheater Silos, duration 30 min</td></tr>
<tr><td rowspan="4">14.01.2025.

10:30 – 12.00</td><td rowspan="4">(2 classes)
• Acid-base imbalances.
• Metabolic and respiratory acidosis.
• Metabolic and respiratory alkalosis</td><td>IMPLICATIONS AND EVALUATION OF WATER AND ELECTROLYTES ALTERATION
12.01.2025.
14:30–16:00 Group 3
(Lecture Hall)</td><td>LIPID METABOLISM DISORDERS
12.01.2025.
14:30–16:00 Group 1
(Lab Classroom A)</td></tr>
<tr><td>12.01.2025.
14:30–16:00 Group 4
(Classroom 2)</td><td>12.01.2025.
14:30–16:00 Group 2
(Lab Classroom B)</td></tr>
<tr><td>13.01.2025.
14:30–16:00 Group 1
(Lecture Hall)</td><td>13.01.2025.
14:30–16:00 Group 3
(Lab Classroom A)</td></tr>
<tr><td>13.01.2025.
14:30–16:00 Group 2
(Classroom 2)</td><td>13.01.2025.
14:30–16:00 Group 4
(Lab Classroom B)</td></tr>
<tr><td colspan="4">WEEK XI (19-23.01.2026.)</td></tr>
<tr><td rowspan="4">21.01.2026.

10:30 – 12:00

12:00 – 12:45</td><td rowspan="4">(2 classes)
• Valvular heart disease
• Ischaemic heart disease

(1 class)
• Heart failure. Cardiac oedema</td><td>IMPLICATION AND EVALUATION OF ACID-BASE IMBALANCE
19.01.2025.
14:30–16:00 Group 3
(Lecture Hall)</td><td>FLUID AND ELECTROLYTE ALTERATIONS
19.01.2025.
14:30–16:00 Group 1
(Lab Classroom A)</td></tr>
<tr><td>19.01.2025.
14:30–16:00 Group 4
(Classroom 2)</td><td>19.01.2025.
14:30–16:00 Group 2
(Lab Classroom B)</td></tr>
<tr><td>20.01.2025.
14:30–16:00 Group 1
(Lecture Hall)</td><td>20.01.2025.
14:30–16:00 Group 3
(Lab Classroom A)</td></tr>
<tr><td>20.01.2025.
14:30–16:00 Group 2
(Classroom 2)</td><td>20.01.2025.
14:30–16:00 Group 4
(Lab Classroom B)</td></tr>
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<tr><th colspan="4">WEEK XII (26-30.01.2026.)</th></tr>
<tr><td rowspan="4">28.01.2026.

10:30 – 12:00</td><td rowspan="4">(2 classes)
• Disorders of the heart’s impusle formation and conduction
• Arterial hypertension and hypotension</td><td>MOLECULAR MECHANISMS OF SHOCK

26.01.2025.
14:30–16:00 Group 3
(Lecture Hall)</td><td>ACID-BASE IMBALANCES

26.01.2025.
14:30–16:00 Group 1
(Lab Classroom A)</td></tr>
<tr><td>26.01.2025.
14:30–16:00 Group 4
(Classroom 2)</td><td>26.01.2025.
14:30–16:00 Group 2
(Lab Classroom B)</td></tr>
<tr><td>27.01.2025.
14:30–16:00 Group 1
(Lecture Hall)</td><td>27.01.2025.
14:30–16:00 Group 3
(Lab Classroom A)</td></tr>
<tr><td>27.01.2025.
14:30–16:00 Group 2
(Classroom 2)</td><td>27.01.2025.
14:30–16:00 Group 4
(Lab Classroom B)</td></tr>
<tr><th colspan="4">WEEK XIII (2-6.02.2026.)</th></tr>
<tr><td rowspan="4">4.02.2026.

10:30 – 12:00

12:00 – 12:45</td><td rowspan="4">(2 classes)
• Obstructive pulmonary disease
• Restrictive pulmonary syndrome

(1 class)
• Alterations in pulmonary cicrulation
• Alterations in control of ventilation
• Respiratory arrhythmia</td><td>PATHOPHYSIOLOGY OF CARDIAC ARRHYTHMIAS

2.02.2026.
14:30–16:00 Group 3
(Lecture Hall)</td><td>PATHOPHYSIOLOGY OF SHOCK

2.02.2026.
14:30–16:00 Group 1
(Lab Classroom A)</td></tr>
<tr><td>2.02.2026.
14:30–16:00 Group 4
(Classroom 2)</td><td>2.02.2026.
14:30–16:00 Group 2
(Lab Classroom B)</td></tr>
<tr><td>3.02.2026.
14:30–16:00 Group 1
(Lecture Hall)</td><td>3.02.2026.
14:30–16:00 Group 3
(Lab Classroom A)</td></tr>
<tr><td>3.02.2026.
14:30–16:00 Group 2
(Classroom 2)</td><td>3.02.2026.
14:30–16:00 Group 4
(Lab Classroom B)</td></tr>
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WEEK XIV (9-15.02.2026.)			
	LAB MAKE-UPS WEEK **SIGNATURES**	**HEART FAILURE AND EVALUATION OF CVS FUNCTIONS**	***PATHOLOGICAL ECG***
		9.02.2026. **14:30–16:00** **Group 3** (Lecture Hall)	**9.02.2026.** **14:30–16:00** **Group 1** (Lab Classroom A)
		9.02.2026. **14:30–16:00** **Group 4** (Classroom 2)	**9.02.2026.** **14:30–16:00** **Group 2** (Lab Classroom B)
		10.02.2026. **14:30–16:00** **Group 1** (Lecture Hall)	**10.02.2026.** **14:30–16:00** **Group 3** (Lab Classroom A)
		10.02.2026. **14:30–16:00** **Group 2** (Classroom 2)	**10.02.2026.** **14:30–16:00** **Group 4** (Lab Classroom B)