

## **LABORATORY DIAGNOSTICS – 3<sup>rd</sup> year students – summer semester 2023/2024**

The lectures will last from **26<sup>th</sup> February 2024 to 25<sup>th</sup> March 2024** and will be held **on-line on Teams platform on Mondays at 17.00-18.30.**

<b>L.p.</b>	<b>Topic of lectures</b>
1.	The role of laboratory tests in the modern process of diagnosis and treatment of organ and systemic diseases. (1 h)
2.	The variability of the laboratory result -the assessment of factors. Cooperation between the doctor and diagnostic laboratory. (1 h)
3.	Laboratory diagnostics of thyroid diseases. (1h)
4.	Laboratory diagnostics of hypothalamus, pituitary and adrenal diseases. (1 h)
5.	Laboratory diagnostics of the secretory function of the gastrointestinal tract. (2 h)
6.	Clinical enzymology. (1h)
7.	Laboratory diagnostics of heart diseases. (1h)
8.	Laboratory diagnostics of tumor diseases - tumor markers. (1h)
9.	Final test. (1h)

The practical classes will last from **26<sup>th</sup> February 2024 to 4<sup>th</sup> June 2024 (12 weeks).**

<b>L.p.</b>	<b>Topic of laboratory classes</b>
1.	Principles of collecting and handling biological material and causes of pre-laboratory and laboratory errors. (3h)
2.	Laboratory diagnostics of transfusiology. (2h)
3.	Laboratory diagnosis of clinical water-electrolyte and acid-base imbalances. (3h)
4.	Laboratory diagnostics of coagulation system and fibrinolysis disorders. (2h)
5.	Laboratory diagnostics of calcium metabolism disorders. (3h)
6.	Basics of diagnostics of the white and red blood cells. (2h)
7.	Laboratory diagnostics of lipid metabolism disorders. (3h)
8.	Laboratory diagnostics of anemia. (2h)
9.	Laboratory diagnostics of liver diseases. (3h)
10.	Laboratory diagnostics of selected metabolic disorders: diabetes, insulin resistance, metabolic syndrome. (2h)
	Laboratory diagnostics of urinary tract diseases. (3h)
12.	Laboratory diagnostics of urine, faeces and body fluids. (2h)