Course title	Laboratory diagnostics
Lecturer	Determined later
Lecturer's email address	
Hours	30
ECTS	5
Academic year	2020/2021
Semester	Winter / summer
Content	1. Characteristics of the material for testing. 2. Factors influencing the result of a laboratory test. 3. The concept of norms, reference values and their importance in formulating a diagnosis. 4. Basics of hematological diagnostics. 5. Lipid metabolism disorders in laboratory diagnostics. 6. Evaluation of the physical properties of urine, analysis by means of test strips, detection of inorganic urine components and protein and glucose in urine 7. Determining the nutritional status of vitamin C. 8. Enzymes and isoenzymes in diagnostics of diet-dependent diseases - interpretation of blood tests results. 9. Laboratory tests in the diagnosis of kidney and liver diseases.
Learning outcomes	At the end of the course the learner is expected to be able to: 1. Explain the basic concepts in the field of laboratory diagnostics. 2. Characterize morphology and blood smear parameters as well as urine and faeces. 3. Use the knowledge of laboratory tests useful in the diagnosis of diet-related diseases. 4. Interpret the results of biochemical tests. 5. Be a patient advisor in the interpretation of research results and justification for planned dietary management.

	6. Understand the need for continuous self-education and creatively cooperate in the field of laboratory diagnostics of diet-related diseases with other public health specialists.
Selected literature	1. Bakerman S. Bakerman's ABC's of Interpretive Laboratory Data 4th Edition. 2. Sauberlich Howerde E. Laboratory Tests for the Assessment of Nutritional Status, Second Edition 2nd Edition 3. Mosby's Diagnostic and Laboratory Test Reference, Elsevier 2018 4. Harrington D. Laboratory Assessment of Vitamin Status 1st Edition, Academic Press 2018
Teaching tools/methods	1) Students presentations 2) Seminary discussion 3) Practical classes 4) Test assessment
Form of examination	Test of knowledge