

Course title: LABORATORY DIAGNOSTICS

ECTS credit allocation (and other scores):1

Semester: spring

Level of study: ISCED-6 - first-cycle programmes (EQF-6)

Branch of science: Medical and health sciences

Language: English

Number of hours per semester: 35

Course coordinator/ Department and e-mail: dr Blanka Wolszczak-Biedrzycka email: blanka.wolszczak@uwm.edu.pl

Type of classes: classes and lectures

Substantive content

CLASSES: 1. Urine as a diagnostic material ,2. Full blood count, ESR /hematology/ 3. Diagnosis of coagulation system 4. Water and electrolyte balance and acid-base balance 5. The use of POCT devices

LECTURES: 1.Place of laboratory diagnostics in the health care system 2. Effect of pre-analytical variability on laboratory results. Types of laboratory errors. 3. The influence of diet on the laboratory test results. 4. The interpretation of laboratory test results in dietetics. 5. Interpreting laboratory values in older adults and children.

Learning purpose: To acquire knowledge about the influence of diet on laboratory test results, avoidance of pre-laboratory errors, acquire knowledge about factors and errors in the pre-analytical phase which may have influence on laboratory test results, use of lab results in the patient's diagnosis.

On completion of the study programme the graduate will gain:

Knowledge: types of biological materials used in laboratory diagnostics and principles of sampling for research; theoretical and practical foundations of laboratory diagnostics; possibilities and limitations of emergency laboratory tests;

Skills: interpret laboratory results and identify the causes of deviations from the reference values; secure material for tests used in laboratory diagnostics;

Social Competencies: perceiving and recognizing one's own limitations and self-assessing educational deficits and needs

Basic literature: Hubbard J.D:"A concise review of clinical laboratory science"; Williams&Wilkins, 2010

Supplementary literature: Stedman: "Stedman's medical dictionary"; Williams&Wilkins, 2010

The allocated number of ECTS points consists of:

Contact hours with an academic teacher: 35

Student's independent work: 5