

**JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK
FACULTY OF MEDICINE OSIJEK**



**UNIVERSITY UNDERGRADUATE STUDY
OF MEDICAL LABORATORY DIAGNOSTICS**

LEARNING OUTCOMES AT THE LEVEL OF THE STUDY PROGRAM

Osijek, 2025.

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1. Knowledge	
IU1	1.1 Expert knowledge in biomedicine and healthcare: applies knowledge from natural sciences, basic and clinical medical sciences in laboratory medicine for the purpose of analyzing and solving specific professional problems that arise in medical or scientific research laboratories, as well as in various other work environments.
IU2	1.2. Expert knowledge in medical-laboratory diagnostics: applies expert knowledge in the application of modern techniques and methods of testing biological samples in biomedical laboratories aligned with current professional guidelines for quality assurance, legal regulations and ethical principles, and with a special emphasis on their technical performance aligned with the requirements of good laboratory practices in medical-laboratory diagnostics.
2. Skills	
IU3	2.1. Problem-solving and decision-making: analyze, find solutions and solve specific professional problems that arise during the analysis of samples in a medical-diagnostic or scientific-research laboratory.
IU4	2.2. Analytical and technical skills: applies modern analytical methods, techniques and instruments during independent processing and analysis of biological samples in medical laboratories for cytology/cytopathology, cytogenetics, histology/histo-pathology, clinical biochemistry, hematology, transfusion medicine, microbiology, immunology, medical genetics, nuclear medicine, molecular diagnostics and forensics.
IU5	2.3. Organizational skills: maintains medical documentation and applies organizational principles in working with biological samples suitable for independent work and teamwork.
IU6	2.4. Communication skills: communicates in an appropriate manner with colleagues and patients and with the public through oral and written forms of communication.
IU7	2.5. Teamwork skills: contributes to professional and responsible behavior in the work environment in predictable and unpredictable situations as well as with work in professional organizations.
IU8	2.6. Information skills: uses modern information technologies and databases for the purpose of electronic data processing, improvement of professional knowledge and skills and self-education.
IU9	2.7. Research skills: critically evaluates and applies scientific knowledge and available data for the purpose of developing and applying new analytical methods and processes.
3. Independence and responsibility	
IU10	3.1. Independence: demonstrates independence in the performance of professional tasks and analysis of professional problems.
IU11	3.2. Responsibility: applies the legal and ethical principles of the profession in independent work and teamwork in accordance with the rules of the profession and the Code of Ethics and Deontology of Health Workers in Medical Laboratory Activities. Is continuously educated and thus contributes to the development of knowledge and skills relevant to professional development.