



Detailed Course Syllabus

Academic year: 2025/2026	Semester: Summer semester
Study programme: Sestrinstvo (I) (elective)	Year of study: 1

I. BASIC COURSE INFORMATION

Name: Laboratory medicine: from sample to laboratory test results

Abbreviation: IZBP272

Status: Compulsory	ECTS: 4	Code: 280422
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Prerequisites: No

Total Course Workload

Teaching Mode	Total Hours
Lecture	15
Seminar	5

Class Time and Place: HKS - according to the published schedule

II. TEACHING STAFF

Course Holder

Name and Surname: Leniček Kralža Jasna

Academic Degree:	Professional Title:
Contact E-mail: jenicekkralza@zvu.hr	Telephone:

Office Hours: According to the published schedule

Course Assistant

III. DETAILED COURSE INFORMATION

Teaching Language: Hrvatski

	<p>The elective course aims to familiarize students with all potential sources of errors that affect the accuracy of laboratory test results, whether performed in a laboratory or on POC devices.</p>	
<p>Course Description</p>	<p>Through lectures, students will learn the fundamentals of proper patient preparation, correct sampling techniques, appropriate sample transport, result interpretation, recognition of interferences, and corrective actions when interferences are present.</p>	
	<p>The seminars for this elective course are designed to take place within the laboratory, where laboratory samples will be analyzed. Additionally, seminars will include independent student work in a 10-minute presentation on a topic covered in the lectures.</p>	
<p></p>		
	<ol style="list-style-type: none"> 1. Describe the diagnostic approach and diagnostic workup of the patient. 	
	<ol style="list-style-type: none"> 2. Explain biological variations and their impact on the biochemical composition of body fluids. 	
	<ol style="list-style-type: none"> 3. Relate the type of container to the sample for laboratory testing. 	
	<ol style="list-style-type: none"> 4. Compile a list of all potential preanalytical errors. 	
	<ol style="list-style-type: none"> 5. Demonstrate patient preparation for individual laboratory tests. 	
	<ol style="list-style-type: none"> 6. Distinguish preanalytical error and/or interference from pathological findings. 	
	<ol style="list-style-type: none"> 7. Categorize laboratory tests according to urgency. 	
	<ol style="list-style-type: none"> 8. Compare the results obtained with reference intervals, critical values, and the patient's health status. 	
	<ol style="list-style-type: none"> 9. Analyze the results obtained on POC devices. 	
<p><i>Textbooks and Materials</i></p>		
	<p>Required Topić E. i sur. Medicinska biokemija i laboratorijska medicina u kliničkoj praksi. Medicinska naklada, Zagreb, 2018.</p>	
	<ol style="list-style-type: none"> 1. Lenicek Krleza J, Dorotic A, Grzunov A, Maradin M. Croatian Society of Medical Biochemistry and Laboratory Medicine. Capillary blood sampling: national recommendations for the Croatian Society of Medical Biochemistry and Laboratory Medicine. Biochem Med (Zagreb) 2015;25(3):335-58. 	
	<ol style="list-style-type: none"> 2. Simundic et al. Recommendation for venous blood sampling. Clin Chem Lab Med 2018;56(12):2015-38. doi: 10.1515/cclm-2018-0602. 	
	<ol style="list-style-type: none"> 3. Lenicek Krleza J, Honovic L, Vlasic Tanaskovic J, Podolar S, Rimac V, Jokic A, Post-analytical laboratory work: national recommendations from the Working Group for Post-analytics on behalf of the Croatian Society of Medical Biochemistry and Laboratory Medicine. BiochemMed (Zagreb) 2019;29(2):020502. 	
<p><i>Examination and Grading</i></p>		
<p>To Be Passed DA</p>	<p>Exclusively Continuous Assessment NE</p>	<p>Included in Average Grade DA</p>
<p>Prerequisites to Obtain Signature and Take Final Exam</p>	<ol style="list-style-type: none"> 1. Regular class attendance (at least 80% attendance) 	
	<ol style="list-style-type: none"> 2. Properly completed seminar obligations 	
<p>Examination Manner</p>	<p>Continuous evaluation of student work in addition to regular class attendance (which is a requirement for taking the exam), adding points for active participation in seminars and the results of the written exam result in an overall grade as follows: sufficient (2): 60-69 points; good (3): 70-79 points; very good (4): 80-89 points; excellent (5): 90-100 points.</p>	
<p>Grading Manner</p>	<p>Continuous evaluation of student work through:</p>	
	<ol style="list-style-type: none"> 1. Teaching activities: 10-minute seminar presentation 	
	<ol style="list-style-type: none"> 2. Final exam (written) 	
<p>Detailed Overview of Grading within ECTS</p>		

VRSTA AKTIVNOSTI	ECTS BODOVI - koeficijent opterećenja studenta	UDIO OCJENE (%)
Class Attendance	1.2	0
Seminar Presentation	0.8	30
Total in Class	2	30
Final Exam	2	70
TOTAL ECTS (Classes + Final Exam)	4	100

Midterm exam dates:

Exam period dates:

IV. WEEKLY CLASS SCHEDULE