Detaljni izvedbeni plan

Akademska godina: 2026/2027	**Semestar:** Ljetni
Godina studija: 1	**Studij:** Sestrinstvo (I) (izborni) (Prijediplomski)

I. OSNOVNI PODACI O KOLEGIJU

Naziv kolegija: Laboratory medicine: from sample to laboratory test results

Kratica kolegija: IZBP241

ECTS bodovi: 4	**Šifra kolegija:** 263634

Preduvjeti za upis kolegija: Nema

Ukupno opterećenje kolegija

Vrsta nastave	**Ukupno sati**
Predavanje	30
Seminar	5

Mjesto i vrijeme održavanja nastave: HKS – prema objavljenom rasporedu

II. NASTAVNO OSOBLJE

Nositelj kolegija

Ime i prezime: Leniček Krleža Jasna

Akademski stupanj/naziv:	**Izbor:** naslovni docent
Kontakt e-mail: jlenicekkrleza@zvu.hr	**Telefon:**

Konzultacije: Prema objavljenom rasporedu

Suradnici na kolegiju

III. DETALJNI PODACI O KOLEGIJU

Jezik na kojem se nastava održava: English

Opis kolegija	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. 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. 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.
Očekivani ishodi učenja na razini kolegija	1. Describe the diagnostic approach and diagnostic workup of the patient. 2. Explain biological variations and their impact on the biochemical composition of body fluids. 3. Relate the type of container to the sample for laboratory testing. 4. Compile a list of all potential preanalytical errors. 5. Demonstrate patient preparation for individual laboratory tests. 6. Distinguish preanalytical error and/or interference from pathological findings. 7. Categorize laboratory tests according to urgency. 8. Compare the results obtained with reference intervals, critical values, and the patient's health status. 9. Analyze the results obtained on POC devices.
Literatura	
Obavezna	Topić E. i sur. Medicinska biokemija i laboratorijska medicina ukliničkoj praksi. Medicinska naklada, Zagreb, 2018.
Dopunska	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. 2. Simundic at al. Recommendation for venous blood sampling. Clin Chem Lab Med 2018;56(12):2015-38. doi: 10.1515/cclm-2018-0602. 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.
Način ispitivanja i ocjenjivanja	

Polaže se DA	**Isključivo kontinuirano praćenje nastave** NE	**Ulazi u prosjek** DA

Preduvjeti za dobivanje potpisa i polaganje završnog ispita	1. Regular class attendance (at least 80% attendance) 2. Properly completed seminar obligations
Način ocjenjivanja	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.
Način polaganja ispita	Continuous evaluation of student work through: 1. Teaching activities: 10-minute seminar presentation 2. Final exam (written)
Detaljan prikaz ocjenjivanja unutar Europskoga sustava za prijenos bodova	

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

IV. TJEDNI PLAN NASTAVE

Vježbe

#	Tema
1	10 –minutna prezentacija studenta na dogovorenu temu predavanja –početak svakog seminara
2	Primjeri iz prakse: kako prepoznati interferencije
3	Primjeri iz prakse: najčešće interferencije u različitim vrstama uzoraka
4	Primjeri iz prakse: popravne radnje kod prisutne interferencije
5	Primjeri iz prakse: POCT i brzi testovi

Seminari

#	Tema
1	Laboratory medicine: from sample to laboratory test results
2	Examples from practice: the most common interferences in different types of samples
3	Examples from practice: corrective actions in case of interference
4	Examples from practice: POCT and rapid tests
5	Practical examples: how to recognize a pre-analytical error