

**JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK
FACULTY OF MEDICINE OSIJEK
UNIVERSITY GRADUATE STUDY
OF MEDICAL LABORATORY DIAGNOSTICS**



**DESCRIPTION OF THE PROGRAMME
ACADEMIC YEAR 2024./2025.**

1st Year – Mandatory Courses

Label of subjects	Course name	Courses leader	Associates in the course	Teaching hours				SUS	Σ OS	ECTS
				L	S	E	Σ KN			
1 st semester										
123224	Toxicological Chemistry	Asst. Prof. Vesna Horvat, MMedBiochem, PhD	Asst. Prof. Vesna Horvat, MMedBiochem, PhD Asst. Prof. Dario Mandić, MMedBiochem, PhD Tihana Pavošević, MMedBiochem Maja Lukić, MMedBiochem Maja Grabić, MMedBiochem	30	15	15	60	65	125	5
123242	Clinical Immunology and Immunogenetics	Prof. Jasminka Milas Ahić, MD, PhD	Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD Asst. Prof. Vlatka Periša, MD, PhD Asst. Prof. Tihana Šimundić, MD PhD	30	30	0	60	65	125	5
123235	Clinical Haematology	Asst. Prof. Vlatka Periša, MD, PhD	Asst. Prof. Maja Bogdan, MD, PhD Asst. Prof. Jasminka Rajc, MD, PhD Asst. Prof. Mirjana Suver Stević, MD, PhD Marija Milić, MMedBiochem, PhD Zdravka Krivdić Dupan, MD, PhD Danijela Mjeda, MD	30	30	0	60	65	125	5
123233	Clinical Microbiology and Epidemiology	Prof. Domagoj Drenjančević, MD, PhD Prof. Maja Miškulin, MD, PhD	Asst. Prof. Arlen Antolović-Požgain, MD, PhD Asst. Prof. Maja Bogdan, MD, PhD	30	30	0	60	65	125	5
123237	Cytodiagnostics	Assoc. Prof. Biljana Pauzar, MD, PhD	Assoc. Prof. Valerija Miličić, MD, PhD Asst. Prof. Branka Lončar, HD, PhD Asst. Prof. Marija Perić, MD, PhD	30	30	0	60	65	125	5
	Elective course I			35	20	15	70	55	125	5
Total 1 st semester				185	155	30	370	380	750	30

2 nd semester										
123243	Emergency Situations in Laboratory Medicine	Asst. Prof. Dubravka Mihaljević, MD, PhD	Prof. Silvio Mihaljević, MD, PhD Assoc. Prof. Ines Bilić Čurčić, MD, PhD Assoc. Prof. Suzana Mimica, MD, PhD Assoc. Prof. Vatroslav Šerić, MMedBiochem, PhD Asst. Prof. Tomislav Kizivat, MD, PhD Asst. Prof. Vlatka Periša, MD, PhD Zvonimir Sitaš, MD Maja Lukić, MMedBiochem Tihana Pavošević, MMedBiochem	30	10	20	60	65	125	5
123230	The Use of Cell and Tissue Culture in the Biomedical Research	Prof. Ljubica Glavaš-Obrovac, MScBiotech, PhD	Prof. Tatjana Belovari, MD, PhD Assoc. Prof. Stana Tokić, MbiolMol, PhD Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD Asst. Prof. Marijana Leventić, Mbiol, PhD	30	15	15	60	65	125	5
123240	Molecular Genetics and Molecular Mechanisms	Prof. Dragan Primorac, MD, PhD	Prof. Marija Heffer, MD, PhD Prof. Martina Smolić, MD, PhD Prof. Jasenka Wagner Kostadinović, MMedBiochem, PhD Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD Petar Brlek, MD	30	30	0	60	65	125	5
123232	Basic Pharmacology	Asst. Prof. Hrvoje Roguljić, MD, PhD	Assoc. Prof. Ines Bilić Čurčić, MD, PhD Assoc. Prof. Željko Debeljak, MMedBiochem, PhD Assoc. Prof. Suzana Mimica, MD, PhD Asst. Prof. Sandra Šarić, MD, PhD Asst. Prof. Nikola Raguž-Lučić, MD, PhD Klara Ormanac, MD Lucija Horvat, MD Aurora Antolović Amidžić, MPharm	30	30	0	60	65	125	5
	Elective course II			35	20	15	70	55	125	5
	Elective course III			35	20	15	70	55	125	5
Total 2 nd semester				190	125	65	380	370	750	30
Total mandatory courses				270	220	50	540	585	1125	45
Elective courses required				105	60	45	210	165	375	15
TOTAL 1 st year:				375	280	95	750	750	1500	60

Legend: L - lectures; S - seminars; E - exercises; I KN - total hours of contact teaching; SUS - student self-learning; I OS - total student load; ECTS credits according to the European higher education system (1 ECTS corresponds to 25 hours of total student load)
 *not an integral part of the teaching load.

1st year - Elective courses

Label of subjects	Course name	Courses leader	Associates in the course	Teaching hours				SUS	Σ OS	ECTS
				L	S	E	Σ KN			
123413	Laboratory Technologies in Clinical Biochemistry	Assoc. Prof. Vatroslav Šerić, MMedBiochem, PhD	Assoc. Prof. Željko Debeljak, MMedBiochem, PhD Asst. Prof. Sanja Mandić, MMedBiochem, PhD Marija Milić, MMedBiochem, PhD Tihana Pavošević, MMedBiochem Maja Lukić, MMedBiochem Maja Grabić, MMedBiochem	35	20	15	70	55	125	5
123412	Laboratory Technologies in Immunology	Prof. Jasminka Milas Ahic, MD, PhD	Prof. Jerko Barbić, MD, PhD Asst. Prof. Teuta Opačak-Bernardi, MBiolMol, PhD Asst. Prof. Vlatka Periša, MD, PhD Asst. Prof. Tihana Šimundić, MD PhD	35	20	15	70	55	125	5
123410	Laboratory Technologies in Transfusion Medicine and Transplantation	Assoc. Prof. Marina Samardžija, MD, PhD	Asst. Prof. Marina Ferenac Kiš, MBiolMol, PhD Asst. Prof. Saška Marcz, MEdBiol et Chem, PhD Asst. Prof. Vera Plužarić, MD, PhD Branislava Latas, MD Dejana Brkić Barbarić, MD Sandra Vitaić, MD Matea Vinković, MD Maja Lesinger, MD	35	20	15	70	55	125	5
123415	Nuclear Medicine Methods and Imaging Techniques in Medicine	Prof. Ivica Mihaljević, MD, PhD	Assoc. Prof. Mario Štefanić, MD, PhD Asst. Prof. Tomislav Kizivat, MD, PhD Asst. Prof. Ivana Marić, MD, PhD Vlado Wagenhofer, MD, PhD Dunja Mudri, MD, PhD Hrvoje Delalić, MD Marija Kordić-Brandić, MD Katica Mijatović, MD	35	20	15	70	55	125	5
123411	Laboratory Technologies in Molecular Genetics and Biology	Prof. Jasenka Wagner Kostadinović, MMedBiochem, PhD	Prof. Marija Heffer, MD PhD Prof. Feodora Stipoljev, Medical Genetics, PhD Asst. Prof. Vedrana Ivić, MEdBiol, PhD Marta Balog, MBiol, PhD Marija Dundović, MBiol, PhD Viktoria Čurila, MEdBiol et Chem, PhD	35	20	15	70	55	125	5
123406	Laboratory Technologies in Cytodiagnostics	Assoc. Prof. Biljana Pauzar, MD, PhD	Adela Benkotić, MD	35	20	15	70	55	125	5
Total mandatory courses				210	120	90	420	330	750	30
Elective courses required				105	60	45	210	165	375	15

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** From the elective courses offered, students have to choose at least one course.

2nd Year – Mandatory Courses

Label of subjects	Course name	Courses leader	Associates in the course	Teaching hours				SUS	Σ OS	ECTS
				L	S	E	Σ KN			
3 rd semester										
123417	Control and Quality Assurance in Biomedical Laboratory	Assoc. Prof. Vatroslav Šerić, MMedBiochem, PhD	Asst. Prof. Sanja Mandić, MMedBiochem, PhD Asst. Prof. Vesna Horvat, MMedBiochem, PhD Marija Milić, MMedBiochem, PhD Tihana Pavošević, MMedBiochem	25	20	0	45	55	100	4
123419	Medical Psychology	Assoc. Prof. Katarina Dodig Ćurković, MD, PhD	Asst. Prof. Sanja Jandrić, MPsyholog, PhD Asst. Prof. Marina Perković Kovačević, MPsyholog, PhD	25	15	5	45	55	100	4
123422	Management and Economics in the Health Care	Assoc. Prof. Ivan Miškulin, MEng, PhD	Nika Pavlović, MengProc, PhD	25	20	0	45	55	100	4
123426	Clinical Medicine and Laboratory Diagnostics	Assoc. Prof. Tatjana Bačun, MD, PhD	Assoc. Prof. Mirjana Stupnišek, MMedLabDiag, PhD Asst. Prof. Dubravka Mihaljević, MD, PhD Asst. Prof. Ružica Palić Kramarić, MD PhD Asst. Prof. Saška Marczl, MEdBiol et Chem, PhD Ivana Tolj, MD, PhD Ivan Lekić, MD Vlasta Oršić Frič, MD	30	30	0	60	65	125	5
123424	Preventive Medicine	Assoc. Prof. Ljiljana Majnarić, MD, PhD	Assoc. Prof. Ivan Miškulin, MEng, PhD Asst. Prof. Saška Marczl, MEdBiol et Chem, PhD Zvonimir Bosnić, MD	25	15	5	45	55	100	4
	Elective course IV			25	15	5	45	30	75	3
	Elective course V			25	15	5	45	30	75	3
	Elective course VI			25	15	5	45	30	75	3
Total 3 rd semester				205	145	25	375	375	750	30
4 th semester										
123428	Methodology of Scientific Work	Assoc. Prof. Mario Štefanić, MD, PhD		25	20	0	45	55	100	4
123433	*Individual research and working on thesis within the			0	40	*200	240	260	500	20
123440	Graduation Thesis			0	40	0	40	110	150	6
Total 4 th semester				25	100	200	325	425	750	30
Total mandatory courses				155	200	210	565	710	1275	51
Elective courses required				75	45	15	135	90	225	9
TOTAL 2 nd year:				230	245	225	700	800	1500	60

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*not an integral part of the teaching load.

2nd year - Elective courses

Label of subjects	Course name	Courses leader	Associates in the course	Teaching hours				SUS	Σ OS	ECTS
				L	S	E	Σ KN			
123451	Laboratory Diagnostics of Infectious Diseases	Assoc. Prof. Ljiljana Perić, MD, PhD	Asst. Prof. Dubravka Lišnjić, MD, PhD Mario Duvnjak, MD Dario Sabadi, MD	25	15	5	45	30	75	3
123467	Laboratory Diagnostics in Forensic Medicine	Assoc. Prof. Stana Tokić, MBIolMol, PhD	Asst. Prof. Boris Dumenčić, MD, PhD Asst. Prof. Elizabeta Matuzalem Marinović, MD, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD Asst. Prof. Teuta Opačak-Bernardi, MBIolMol, PhD Asst. Prof. Vera Plužarić, MD, PhD	25	15	5	45	30	75	3
123479	Laboratory Diagnostics of Neoplasias	Prof. Branko Dmitrović, MD, PhD	Prof. Sven Kurbel, MD, OPhD	25	15	5	45	30	75	3
123486	Evidence Based Medicine	Asst. Prof. Sandra Šarić, MD, PhD	Prof. Ljubica Glavaš-Obrovac, MScBiotech, PhD Prof. Maja Miškulin, MD, PhD Prof. Kristina Selthofer Relatić, MD, PhD Assoc. Prof. Ana Stupin, MD, PhD Assoc. Prof. Krešimir Šolić, MEng, PhD Asst. Prof. Kristina Bojanić, MD, PhD Asst. Prof. Sandra Šarić, MD, PhD	25	15	5	45	30	75	3
123466	Clinical and Toxicological analyses	Asst. Prof. Sanja Mandić, MMedBiochem, PhD	Asst. Prof. Vesna Horvat, MMedBiochem, PhD Asst. Prof. Dario Mandić, MMedBiochem, PhD Maja Lukić, MMedBiochem	25	15	5	45	30	75	3
123477	Molecular Enzymology	Prof. Ljubica Glavaš-Obrovac, MScBiotech, PhD	Asst. Prof. Marijana Leventić, MBIol, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD	25	15	5	45	30	75	3
Total mandatory courses				150	90	30	270	180	450	18
Elective courses required				75	45	15	135	90	225	9

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