

**JOSIP JURAJ STROSSMAYER UNIVERSITY OF OSIJEK
FACULTY OF MEDICINE OSIJEK
UNIVERSITY UNDERGRADUATE 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										
240307	An Introduction to Biomedicine and Biomedical Technology	Prof. Ljubica Glavaš-Obrovac, MscBiotech, PhD	Assoc. Prof. Tatjana Bačun, MD, PhD Assoc. Prof. Stana Tokić, MbiolMol, PhD Asst. Prof. Marijana Leventić, MBiol, PhD	10	5	0	15	10	25	1
78124	Safety at Laboratory Work	Prof. Ivica Mihaljević, MD, PhD	Asst. Prof. Tomislav Kizivat, MD, PhD Asst. Prof. Ilijan Tomaš, MD, PhD Asst. Prof. Ivana Marić, MD, PhD Vlado Wagenhofer, MD, PhD Dunja Mudri, MD, PhD	30	10	0	40	35	75	3
78128	Anatomy	Prof. Robert Selthofer, MD, PhD	Assoc. Prof. Antonio Kokot, MD, PhD Assoc. Prof. Igor Lekšan, MD, PhD Assoc. Prof. Anđela Grgić, MD, PhD Marta Bolješić Dumančić, MD	20	5	30	55	65	120	5
200801	General and Organic Chemistry	Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD	Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD Asst. Prof. Barbara Viljetić, MEduBiol et Chem, PhD Asst. Prof. Marijana Leventić, MBiol, PhD Ivan Čorić, MEduBiol et Chem, PhD	60	15	30	105	120	225	10
78122	Biology	Asst. Prof. Vedrana Ivić, MEdBiol, PhD	Prof. Marija Heffer, MD, PhD Prof. Jasenka Wagner Kostadinović, MMedBiochem, PhD Marta Balog, MBiol, PhD Viktoria Čurila, MEduBiol et Chem, PhD	30	5	30	65	75	140	6
78129	Histology with Laboratory Techniques	Prof. Tatjana Belovari, MD, PhD	Assoc. Prof. Nikola Bijelić, MD, PhD Asst. Prof. Maja Tolušić Levak, MD, PhD Robert Grgac, MBiol, PhD	45	15	45	105	100	205	9
133312	*Physical and Health Education	Mario Oršolić, MCin		0	0	60	60	0	0	0
Total 1 st semester				195	55	135	385	405	790	34

2 nd semester										
78130	Biochemistry	Prof. Ljubica Glavaš-Obrovac, MscBiotech, PhD	Assoc. Prof. Stana Tokić, MbiolMol, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD Asst. Prof. Barbara Viljetić, MEduBiol et Chem, PhD Asst. Prof. Marijana Leventić, MBiol, PhD	30	15	15	60	70	130	5
78123	Physics and Biophysics	Assoc. Prof. Hrvoje Brkić, MPhys, PhD	Prof. Dario Faj, MPhys, PhD Asst. Prof. Mladen Kasabašić, MPhys, PhD Ivana Krpan, MPhys	15	10	25	501	75	125	5
200804	Ethics in Biomedicine	Asst. Prof. Ružica Palić Kramarić, MD, PhD	Zvonimir Sitaš, MD Marija Tripolski, MD	15	15	0	30	20	50	2
200809	Analytical Chemistry	Asst. Prof. Barbara Viljetić, MedBiol et Chem, PhD	Assoc. Prof. Stana Tokić, MbiolMol, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD Asst. Prof. Marijana Leventić, MBiol, PhD Ivan Čorić, MEduBiol et Chem, PhD	20	10	15	45	30	75	3
78131	Communication Skills	Asst. Prof. Sanda Anton, MD, PhD	Assoc. Prof. Ivan Požgain, MD, PhD Asst. Prof. Sanja Jandrić, MPsyholog, PhD Asst. Prof. Marina Perković Kovačević, MPsyholog, PhD	15	0	15	30	20	50	2
78127	Medical English I	Lorna Dubac Nemet, senior lecturer		0	40	0	40	20	60	2
200796	Mathematics and Statistics	Assoc. Prof. Krešimir Šolić, MEng, PhD	Kristina Kralik, MEdMath	25	15	25	65	65	130	5
78132	Medical Sociology	Assoc. Prof. Ivan Miškulin, MEng, PhD	Prof. Maja Miškulin, MD, PhD Nika Pavlović, MengProc, PhD	15	5	10	30	20	50	2
Total 2 nd semester				135	110	105	350	320	670	26
Total mandatory courses				330	165	240	735	725	1460	60
Elective courses required				0	0	0	0	0	0	0
TOTAL 1 st year:				330	165	240	735	725	1460	60

Legend: L - lectures; S - seminars; E - exercises; Σ KN - total hours of contact teaching; SUS - student self-learning; Σ 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.

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										
86192	Physiology and Pathophysiology	Prof. Ines Drenjančević, MD, PhD Asst. Prof. Silvija Canecki-Varžić, MD, PhD	Prof. Kristina Selthofer Relatić, MD, PhD Assoc. Prof. Ana Stupin, MD, PhD Assoc. Prof. Ivana Jukić, MD, PhD Assoc. Prof. Aleksandar Kibel, MD, PhD Asst. Prof. Zrinka Mihaljević, MEdUbiol et Chem, PhD Asst. Prof. Marko Stupin, MD, PhD Asst. Prof. Lana Maričić, MD, PhD Nikolina Kolobarić, MBiol, PhD Domagoj Loinjak, MD Damir Mihić, MD, PhD	30	15	15	60	60	120	5
86207	Nuclear Medicine - Methods and Diagnostics	Prof. Ivica Mihaljević, MD, PhD	Assoc. Prof. Mario Stefanić, 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 Katika Mijatović, MD	15	0	10	25	25	50	2
86198	Medical English II	Lorna Dubac Nemet, senior lecturer		0	20	0	20	10	30	1
86203	Instrumental Measurement Techniques and Physical Methods in Biomedical Analytics	Prof. Ljubica Glavaš-Obrovac, MscBiotech, PhD	Prof. Tatjana Belovari, MD, PhD Assoc. Prof. Stana Tokić, MBiolMol, PhD Asst. Prof. Dario Mandić, MMedBiochem, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD Asst. Prof. Teuta Opačak-Bernardi, MBiolMol, PhD Asst. Prof. Marijana Leventić, MBiol, PhD Asst. Prof. Barbara Viljetić, MEdUbiol et Chem, PhD Maja Lukić, MMedBiochem Ivan Čorić, MEdUbiol et Chem, PhD	30	15	15	60	40	100	4
86194	Pathology with Laboratory Techniques	Asst. Prof. Marija Perić, MD, PhD	Prof. Branko Dmitrović, MD, PhD Assoc. Prof. Milanka Mrčela, MD, PhD Asst. Prof. Jasmina Rajc, MD, PhD Darija Alpeza, MD Adela Benkotić, MD Mia Galić, MMed.Lab.Diag.	30	10	20	60	60	120	5
86201	Clinical Biochemistry and Laboratory Technologies I	Assoc. Prof. Vatroslav Šerić, MMedBiochem, PhD	Asst. Prof. Sanja Mandić, MMedBiochem, PhD Asst. Prof. Vesna Horvat, MMedBiochem, PhD Marija Milić, MMedBiochem, PhD Maja Grabić, MMedBiochem Maja Lukić, MMedBiochem Tihana Pavošević, MMedBiochem	30	10	30	70	70	140	6
254210	Clinical practice: Clinical biochemistry I	Assoc. Prof. Vatroslav Šerić, MMedBiochem, PhD	Assoc. Prof. Željko Debeljak, MMedBiochem, PhD	5	5	30	40	30	70	3
254211	Clinical practice: Pathology	Asst. Prof. Marija Perić, MD, PhD	Assoc. Prof. Martina Mihalj, MD, PhD Marina Bakula, MMed.Lab.Diag.	5	5	30	40	30	70	3
133312	* Physical and Health Education	Mario Oršolić, MCin		0	0	60	60	0	0	0
Total 3 rd semester				145	80	150	375	325	700	29

4 th semester										
86197	Public Health and Basics of Legal Regulation	Prof. Maja Miškulin, MD, PhD	Assoc. Prof. Ivan Miškulin, MEng, PhD Nika Pavlović, MengProc, PhD	15	15	0	30	15	45	2
86204	Molecular Biology with Laboratory Technologies	Asst. Prof. Teuta Opačak-Bernardi, MbiolMol, PhD	Prof. Ljubica Glavaš-Obrovac, MscBiotech, PhD Assoc. Prof. Stana Tokić, MbiolMol, PhD Asst. Prof. Marijana Leventić, MBiol, PhD	30	15	15	60	65	135	5
86206	Hematology with Laboratory Technologies	Asst. Prof. Vlatka Periša, MD, PhD	Assoc. Prof. Stana Tokić, MbiolMol, PhD Stefan Mrđenović, MD, PhD Maja Lukić, MMedBiochem Tihana Pavošević, MMedBiochem	45	5	45	95	80	175	7
86208	Immunology with Laboratory Technologies	Assoc. Prof. Ivana Jukić, MD PhD	Prof. Ines Drenjančević, MD, PhD Assoc. Prof. Martina Mihalj, MD PhD Asst. Prof. Zrinka Mihaljević, Med Biol et Chem, PhD Nikolina Kolobarić, MBiol, PhD	30	5	15	50	50	100	4
	*Elective course II/1			20	10	30	60	40	100	4
254212	Clinical practice: Hematology	Asst. Prof. Dario Mandić, MMedBiochem, PhD	Asst. Prof. Sanja Mandić, MMedBiochem, PhD Marija Milić, MMedBiochem, PhD Danijela Mjeda, MD Maja Grabić, MMedBiochem Iva Lukić, MMedBiochem Maja Lukić, MMedBiochem Tihana Pavošević, MMedBiochem Tomislav Hrgović, MMedBiochem	10	10	60	80	60	140	6
86209	Human Genetics	Prof. Jasenka Wagner Kostadinović, MMedBiochem, PhD	Prof. Marija Heffer, MD, PhD Asst. Prof. Vedrana Ivić, MedBiol, PhD Marta Balog, MBiol, PhD Viktoria Čurila, MEduBiol et Chem, PhD	15	5	15	35	35	70	3
Total 4 th semester				165	65	180	410	345	765	31
Total mandatory courses				290	135	300	725	630	1365	56
Elective courses required				20	10	30	60	40	100	4
TOTAL 2 nd year:				310	145	330	785	670	1465	60

Legend: L - lectures; S - seminars; E - exercises; Σ KN - total hours of contact teaching; SUS – student self-learning; Σ 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.

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			
86213	Environmental Health and Industrial Hygiene	Prof. Maja Miškulin, MD, PhD	Assoc. Prof. Ivan Miškulin, MEng, PhD Assoc. Prof. Josip Milas, MD, PhD	20	10	30	60	40	100	4
86216	An Introduction to the Scientific Method	Prof. Ivica Mihaljević, 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	20	10	30	60	40	100	4
86215	Experimental Methods in Laboratory Medicine I	Asst. Prof. Barbara Viljetić, MEduBiol et Chem, PhD	Prof. Ines Drenjančević, MD, PhD Prof. Ljubica Glavaš-Obrovac, MscBiotech, PhD Asst. Prof. Marijana Leventić, MBiol, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD Nikolina Kolobarić, MBiol, PhD	20	10	30	60	40	100	4
Total mandatory courses				60	300	90	180	160	300	12
Elective courses required				20	10	30	60	40	100	4

Legend: L - lectures; S - seminars; E - exercises; Σ KN - total hours of contact teaching; SUS – student self-learning; Σ OS - total student load; ECTS credits according to the European higher education system (1 ECTS corresponds to 25 hours of total student load).

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

3rd 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			
5 th semester										
94385	Medical Microbiology with Laboratory Technology I	Prof. Domagoj Drenjančević, MD, PhD	Asst. Prof. Arlen Antolović-Požgain, MD, PhD Asst. Prof. Maja Bogdan, MD, PhD Ivana Roksandić Križan, MD Marko Živkov, MD Sara Kibel Šoštarko, MD Dinko Paulić, MD	45	15	15	75	50	125	5
94390	Clinical Biochemistry and Laboratory Technologies II	Assoc. Prof. Vatroslav Šerić, MMedBiochem, PhD	Asst. Prof. Sanja Mandić, MMedBiochem, PhD Asst. Prof. Vesna Horvat, MMedBiochem, PhD Marija Milić, MMedBiochem, PhD Maja Grabić, MMedBiochem Maja Lukić, MMedBiochem Tihana Pavošević, MMedBiochem	30	5	45	80	75	155	6
94386	Clinical Cytology	Asst. Prof. Branka Lončar, MD, PhD	Asst. Prof. Marija Perić, MD, PhD Marija Milić, MMedBiochem, PhD Adela Benkotić, MD	30	5	15	50	50	100	4
94387	Transfusion Medicine with Laboratory Technology	Assoc. Prof. Marina Samardžija, MD, PhD	Asst. Prof. Marina Ferenac Kiš, MBIolMol, PhD Asst. Prof. Irena Jukić, MD, PhD Asst. Prof. Saška Marczi, MEdBiol et Chem, PhD Asst. Prof. Vera Plužarić, MD, PhD Branislava Latas, MD Dejana Brkić Barbarić, MD Sandra Vitaić, MD Maja Lesinger, MD Matea Vinković, MD	15	5	15	35	40	75	3
94392	Clinical Laboratory Diagnostics	Assoc. Prof. Tatjana Bačun, MD, PhD	Assoc. Prof. Aleksandar Kibel, MD PhD Assoc. Prof. Mirjana Stupnišek, MMedLabDiag, PhD Asst. Prof. Dubravka Mihaljević, MD PhD Asst. Prof. Ružica Palić Kramarić, MD PhD Ivan Lekić, MD Vlasta Oršić Frič, MD Ana Posavi, MD Zvonimir Sitaš, MD Ivana Tolj, MD Marija Triploski, MD	15	5	30	50	50	100	4
200765	Biomedical Informatics and Laboratory Data Processing	Asst. Prof. Mirko Pešić, MEng, PhD	Assoc. Prof. Krešimir Šolić, MEng, PhD Kristina Kralik, MEdMath	5	5	20	30	30	60	2
254213	Clinical course: Clinical Cytology	Asst. Prof. Branka Lončar, MD, PhD	Assoc. Prof. Valerija Miličić, MD, PhD Asst. Prof. Marija Perić, MD, PhD Adela Benkotić, MD	5	5	30	40	40	80	3
254214	Clinical course: Transfusion Medicine	Assoc. Prof. Marina Samardžija, MD, PhD	Asst. Prof. Marina Ferenac Kiš, MBIolMol, PhD Asst. Prof. Saška Marczi, MEdBiol et Chem, PhD Asst. Prof. Vera Plužarić, MD, PhD Branislava Latas, MD Dejana Brkić Barbarić, MD Maja Lesinger, MD Matea Vinković, MD	5	5	30	40	40	80	3
Total 5 th semester				150	50	200	400	375	755	30

6 th semester										
94391	Medical Microbiology with Laboratory Technology II	Prof. Domagoj Drenjančević, MD, PhD	Asst. Prof. Arlen Antolović-Požgain, MD, PhD Asst. Prof. Maja Bogdan, MD, PhD Ivana Roksandić Križan, MD Marko Živkov, MD Sara Kibel Šoštarko, MD Marijan Orlović, MD Dinko Paulić, MD	30	15	15	60	40	100	4
	*Elective course III/1			20	10	30	60	40	100	4
254215	Clinical practice: Clinical biochemistry II	Prof. Jasenka Wagner Kostadinović, MMedBiochem, PhD	Marija Milić, MMedBiochem, PhD Maja Grabić, MMedBiochem Iva Lukić, MMedBiochem. Maja Lukić, MMedBiochem Jelena Omazić, MMedBiochem	10	10	60	80	70	150	6
254216	Clinical practice: Medical microbiology	Prof. Domagoj Drenjančević, MD, PhD	Asst. Prof. Arlen Antolović-Požgain, MD, PhD Asst. Prof. Maja Bogdan, MD, PhD Marko Živkov, MD Sara Kibel Šoštarko, MD Marijan Orlović, MD Dinko Paulić, MD	10	10	60	80	70	150	6
125085	Final exam project			0	0	150	150	0	0	10
Total 6 th semester				70	45	165	280	220	500	30
Total mandatory courses				200	85	335	620	555	1175	56
Elective courses required				20	10	30	60	40	100	4
TOTAL 3 rd year:				220	95	365	680+150	595	1275	60

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3rd 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			
94396	Experimental Methods in Laboratory Medicine II	Assoc. Prof. Stana Tokić, MbiolMol, PhD	Prof. Ljubica Glavaš-Obrovac, MscBiotech, PhD Asst. Prof. Saška Marczi, MEdBiol et Chem, PhD Asst. Prof. Katarina Mišković Špoljarić, MengProc, PhD	20	10	30	60	40	100	4
94397	Blood Transmitted Diseases	Assoc. Prof. Marina Samardžija, MD, PhD	Asst. Prof. Marina Ferenac Kis, MBIolMol, PhD Asst. Prof. Irena Jukić, MD, PhD Asst. Prof. Saška Marczi, MEdBiol et Chem, PhD Asst. Prof. Vera Plužarić, MD, PhD Branislava Latas, MD Dejana Brkić Barbarić, MD Sandra Vitać, MD Maja Lesinger, MD Matea Vinković, MD	20	10	30	60	40	100	4
Total mandatory courses				40	20	60	120	80	200	8
Elective courses required				20	10	30	60	40	100	4

Legend: L - lectures; S - seminars; E - exercises; Σ KN - total hours of contact teaching; SUS – student self-learning; Σ OS - total student load; ECTS credits according to the European higher education system (1 ECTS corresponds to 25 hours of total student load).

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