2021/22

COURSE CATALOGUE, COMPETENCIES AND LEARNING

UNDERGRADUATE STUDY PROGRAMME OF MEDICAL LABORATORY DIAGNOSTICS

Adopted at the 5th session of the Professional Expert Council held on 22 February 2022

UNIVERSITY OF SPLIT – UNIVERSITY DEPARTMENT OF HEALTH STUDIES

CONTENTS:

COMPETENCIES OF THE UNDERGRADUATE UNIVERSITY STUDY PROGRAMME OF	
MEDICAL LABORATORY DIAGNOSTICS	3
COURSE CATALOGUE WITH LEARNING OUTCOMES	7
MANDATORY AND ELECTIVE COURSES1	1
EXAM AND COURSE ENTRY REQUIREMENTS1	5
CURRICULA OF MANDATORY AND ELECTIVE COURSES	9
LIST OF COURSES, TEACHERS AND ASSOCIATES	2
CURRICULUM VITAE OF TEACHERS AND ASSOCIATES14	5

PUBLISHER

University of Split University Department of Health Studies

EDITORS

- Prof. Davorka Sutlović, PhD, Assistant to the Head for Teaching
- Assist. prof. Esma Čečuk Jeličić, PhD, Head of the Academic Department of MLD
- Assist. prof. Daniela Šupe Domić, PhD, Head of the Study programme Department of MLD

TECHNICAL SUPPORT

- Endica Radić Hozo, PhD
- Jadranka Vrsalović, LLM
- Jelena Saraga Ljoka, BA in Croatian

TRANSLATOR:

• Sonja Koren, MA in English and French

AUTHORS OF TEXTS

Course leaders

I. COMPETENCIES OF THE UNDERGRADUATE UNIVERSITY STUDY PROGRAMME OF MEDICAL LABORATORY DIAGNOSTICS

After completing undergraduate study programme of medical laboratory diagnostics the students will be fully qualified to work independently or in a team. Upon completion of their studies, the students acquire the following competences:

1. Knowledge

1.1. **Basic knowledge in natural and biomedical sciences**: apply basic knowledge of anatomy, physiology, biochemistry, biology, biophysics, embryology, public health, statistics needed to define, analyse and propose procedures in biomedicine and health.

1.2. Expert knowledge in medical laboratory diagnostics: apply professional knowledge and sample handling skills, use good laboratory practices and improve laboratory quality respecting the principles of ethics and deontology

2. Personal skills

2.1. **Problem solving and decision making**: demonstrate an interest in solving sampling and storage problems and diagnostic procedures.

2.2. **Communication skills**: provide positive interactions with patients, associates, other health professionals and the general public through oral and written forms of communication.

2.3. **Teamwork skills**: with professional, responsible and ethical behavior contribute in different situations and in interprofessional groups, as well as in the work of professional organizations and committees; work within health care teams when the interdisciplinary approach is needed; apply acquired knowledge in the field of medical laboratory diagnostics.

3. Professional skills

3.1. Analysis of biological and public health samples: apply professional knowledge and skills in performing basic tasks in medical laboratory diagnostics; organise collection, transport, and storage of biological material and nonbiological material from the public health domain; understand complex laboratory processes in all types of laboratories in medicine and related sciences, help in substrate recognition and determination, activities of enzymes, hormones, vitamins, drugs, make microbiology and parasitology tests, haematology, coagulation, and transfusion tests, make histological, histopathological and cytological preparations, perform basic services in molecular biology laboratories used for human material.

3.2. **Instrumental methods** of **analysis**: apply techniques and use analytical instruments in medical laboratories, maintain and calibrate specific instruments, while applying the principle of work quality, independently perform tests in all areas of laboratory medicine with knowledge required for handling simple and complex devices working on the principle of spectrophotometry, fluorimetry, polarimetry, nephelometry, turbidimetry, densitometry, atomic absorption spectrometry, gas chromatography, and electrophoresis.

3.3. Organisational skills: keep medical records, plan and organise work in the laboratory, organise tasks within the scope of analyses of biologic material through guiding and supervising the work of health technicians, including participation in the practical training of health staff based on acquired knowledge and skills.

3.4. **Information skills**: apply information technologies and databases to improve professional knowledge and skills.

3.5. **Research skills**: apply new technologies to improve profession and solving the problems.

4. Independence and responsibility

4.1. **Independence**: independently organise work within the scope of the bachelor's degree, manage work and plans relevant to the profession.

4.2. **Responsibility**: apply legal and ethical principles of the profession in independent and team work; carry out activities related to continuing professional education and contributes to the development of the profession.

II. COURSE CATALOGUE WITH LEARNING OUTCOMES

Upon completion of the study the students will be able to:

- 1. Demonstrate basic knowledge of anatomy, physiology, biochemistry, embryology, biology, biophysics, public health, pathology and pathophysiology, pharmacology and microbiology and other biomedical subjects, as well as statistics and informatics needed to define, analyse and propose procedures in biomedicine and health.
- 2. Organise collection, transportation and storage of biological material and nonbiological material from the public health domain.
- 3. Organise activities within the scope of work on analysing samples of biological materials.
- 4. Apply analytical techniques and use instruments in medical laboratories.
- 5. Maintain and calibrate specific instruments through application of work quality principles.
- 6. Perform independently tests in all areas of laboratory medicine using the knowledge required for operating simple and complex equipment for spectrophotometry, fluorimetry, polarimetry, nephelometry, turbidimetry, densitometry, atomic absorption spectrometry, gas chromatography, and electrophoresis.
- 7. Help detecting and quantify substrates, activities of enzymes, hormones, vitamins, drugs.
- 8. Make microbiology and parasitology tests.
- 9. Make haematology, coagulation, and transfusion tests.
- 10. Make histological, histopathological and cytological preparations.
- 11. Perform basic services in molecular biology laboratories used for human material.
- 12. Evaluate and understand test results.
- 13. Understand complex laboratory processes in all types of laboratories in medicine and related sciences.
- 14. Use good laboratory practices and improve laboratory quality.
- 15. Apply legal and ethical principles of the profession.

I. I II. SEMESTER – LEARNING OUTCOMES AT THE STUDY LEVEL

		PD	PD	PD	PD	PD	PD	PD	PDM							
KOD	PREDMET	M1	M2	М3	M4	M5	M6	M7	8	9	10	11	12	13	14	15
	Informatics and															
	Statistics in	+												+		1
ZSZ634	Health Care															
	Social and	_		_												1
767625		+		+												
252635	Basics of Health	-														
	Care	+		+												1
ZSZ604	Management															
	Ethics in Health	+														+
ZSZ605	Care															
757606	Physical Training															1
232000																
ZSZ630	English for MDL I	+														
757609	Health Care	+														1
232008	Communication															
ZSZ609	Skills	+														1
	Hygiene and	<u>т</u>	<u>т</u>													
ZSZ610	Epidemiology	т	т													l
	Sociology of	+														+
ZSZ611	Rublic Hoalth								_							
ZSZ613	Public Health	+	+													
	Biochemistry	+			+											
ZSZ614	Diamhusian				т								-			l
ZSZ615	вюрпузіся	+														
767646	Anatomy	+														1
252616	Physiology															
ZSZ617	Filysiology	+														
ZSZ618	Biology	+														1
	Embryology and	+									+					
ZSZ619	Histology										'					
757620	Basics of Nursing	+														1
232020	Introduction to															
	laboratory	+	+	+									+			+
ZSL601	medicine															
ZSL602	Mathematics	+				ľ										
	General															
	Chemistry and	+														1
ZSL633	Stoichiometry															
751 603	Chemistry	+														
202003	Analytical															
ZSL632	Chemistry	+			+	+	+									
ZSL605	Clinical Skills I	+	+	+									+			

III. and IV. SEMESTER – LEARNING OUTCOMES AT THE STUDY LEVEL

		PDM														
KOD	PREDMET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Introduction															
	to Scientific	+											+	+		
ZSZ621	Work															
	Use of															
	Science															
	Technology	Ŧ		+									Ŧ	Ŧ		
ZSZ622																
	Physical															
	Training II															
ZSZ623	0															
	English for															
ZSZ631	MDLI	+														
	Pathophysiolo															
ZSZ625	gy	+												+		
757626	Pathology	+	+								+					
232020	Microbiology										-					
	and	+	+						+							
757627	Parasitology		•													
202027	Pharmacolog															
ZSZ628	V	+						+								
	Basics of															
	haematology									Ι.						
	and	+	+							+						
ZSL606	coagulation															
	Physical															
	methods in	+			+	+	+							+		
ZSL607	MLD															
	Biochemistry	+	+	+				+					+			
ZSL608		-	-													
	Cellular															
	biology with	+										+				
751 609	basics															
232003	Cytology and															
ZSL610	Histology	+	+								+					
	Laboratory															
	histopatholog			Ι.												
	ical		+	+			+				+		+			
ZSL611	techniques															
	Instrumental															
	techniques in	+			+	+	+					+		+		
ZSL612	MLD															
	Computer															
	processing of	+											+			
701 011	laboratory	•														
ZSL613	data (LIS)															
ZSL616	Clinical Skills II		+	+	+	+	+						+	+	+	
	Food	,	,													
ZSL615	Toxicology	т	т				-									

V. and VI. SEMESTER – LEARNING OUTCOMES AT THE STUDY LEVEL

		PD	PD	PD	PD	PD	PD	PD	PD	PD	PDM	PDM	PDM	PDM	PDM	PDM
KOD	PREDMET	M1	M2	M3	M4	M5	M6	M7	M8	M9	10	11	12	13	14	15
ZSZ63	Emergency in	+														
0	Medicine	1														
ZSL61	Clinical	+	+	+				+					+	+		
7	Biochemistry		'										•	•		
	Basics of															
	Transfusion	+	+	+						+			+	+		
ZSL61	Medicine and	•	•	•						•			•	•		
8	Transplantation															
ZSL61	Clinical	+	+	+			+		+			+	+	+		
9	Microbiology		'				'					•	•	•		
	Laboratory															
ZSL62	Haematology and	+	+	+			+	+		+			+	+		
0	Coagulation															
	Molecular															
	Biology	+	+	+			+					+	+			
ZSL62	Techniques in	•	•	•			•					•	•			
1	Medicine															
	Laboratory															
	Immunology and	+	+	+			+					+	+	+		
ZSL62	Immunochemistr	•		•								•		-		
2	у															
ZSL62	Automation in	+		+	+	+	+						+	+	+	
3	MLD	•		•	•	•	•							•		
ZSL62	Quality control in	+		+	+	+	+							+	+	
4	MLD	-		-	-	-	-							-	-	
ZSL62			+	+	+	+	+	+				+	+	+	+	
7	Clinical Skills III		-	-	-	-	-	-				-		-	-	
ZSL62					+									+		
8	Bachelor's Thesis		<u> </u>							<u> </u>						
	Urgent															
ZSL62	laboratory	+	+					+				+	+	+		
5	diagnostics															
ZSL62		+	+									+				
9	Immunogenetics	•										•				

III. MANDATORY AND ELECTIVE COURSES

		LIST OF COURSES									
Year of study	: 1.										
Semester: I.											
STATUS	CODE	COURSE	NUN	NUMBER OF HOURS PER SEMESTER							
			L	S	E	F					
	ZSZ634	Informatics and Statistics in Health Care	10	10	20	0	2				
	ZSZ635	Social and Health Legislation	15	15	0	0	2				
	ZSZ604	Basics of Health Care Management	10	4	5	0	1				
	ZSZ605	Ethics in Health Care	20	10	0	0	1,5				
	ZSZ606	Physical Training I	0	0	0	38	1,5				
	ZSS642	English for MLD I	0	30	0	0	1,5				
	ZSZ608	Health Care Psychology	14	12	18	0	2				
	ZSZ609	Communication Skills	12	0	0	18	2				
	ZSZ610	Hygiene and Epidemiology	30	20	0	5	3				
	ZSZ611	Sociology of Health	20	12	0	0	1,5				
	ZSZ613	Public Health	15	5	0	0	1				
	ZSZ614	Biochemistry	20	10	0	0	2				
Mandatory	ZSZ615	Biophysics		5	0	0	2				
	ZSZ616	Anatomy	26	20	40	0	3				
	ZSZ617	Physiology	30	7	0	10	3				
	ZSZ618	Biology	20	10	0	0	2				
	ZSZ619	Embryology and Histology	15	4	0	0	1				
	ZSZ620	Basics of Nursing Care	40	15	210	0	11				
	ZSL601	Introduction to laboratory medicine	60	30	200	0	12				
	ZSL602	Mathematics	20	20	20	0	4				
	ZSL633	General Chemistry and Stoichiometry	30	20	15	0	4				
	ZSL603	Organic Chemistry	30	20	15	0	4				
	ZSL632	Analytical Chemistry	30	20	15	0	4				
	ZSS604	Clinical Skills I	10	10	120	0	6				
	TOTAL		432	289	303	71	60				

Кеу

L – lectures

S – seminars

E – exercises

F – field practice

*Physical Training – students have 38 hours of field practice in the first and second year.

		LIST OF COURSES									
Year of study	: 2.										
Semester: II	Semester: III i IV										
STATUS	CODE	COURSE	NUN	ECTS							
			L	S	E	F					
	ZSZ621	Introduction to Scientific Work	6	10	12	0	1,5				
	ZSZ622	Use of Science Technology	10	12	0	0	1,5				
	ZSZ623	Physical Training II	0	0	0	38	1,5				
	ZSZ643	English for MLD II	0	30	0	0	1,5				
	ZSZ625	Pathophysiology	30	8	0	0	2				
	ZSZ626	Pathology	30	8	0	0	2				
	ZSZ627	Microbiology and Parasitology	20	10	0	0	2				
	ZSZ628	Pharmacology	28	8	0	0	2				
	ZSL606	Basics of Hematology and Coagulation	30	20	35	0	5				
	ZSL607	Physical Methods in MLD	15	10	30	0	3				
Mandatory	ZSL608	Biochemistry II		20	45	0	6				
	ZSL609	Cellular Biology with Genetics Basics		15	25	0	4				
	ZSL610	Cytology and Histology	25	10	35	0	4				
	ZSL611	Laboratory Histopathological Techniques	20	10	45	0	4				
	ZSL612	Instrumental Techniques in MLD	25	15	30	0	4				
	ZSL613	Computer Processing of Laboratory Data (LIS)	8	7	20	0	2				
	ZSL616	Clinical Skills II	10	10	235	0	11				
		Elective course	15	10	20	0	3				
	TOTAL (M	andatory courses)	342	213	532	38	60				
	ZSL615	Food Toxicology	15	10	20	0	3				
Elective											
	1 elective	course is mandatory									

LIST OF COURSES											
Year of study: 3											
Semester: V i VI											
STATUS	CODE	COURSE	NUN	ABER OF SEMI	F HOURS ESTER	S PER	ECTS				
			L	S	E	F					
	ZSZ630	Emergency in Medicine	18	0	25	0	2				
	ZSL617	Clinical Biochemistry	40	30	50	0	7				
	ZSL618	Basics of Transfusion Medicine and Transplantation	40	30	50	0	7				
	ZSL619	Clinical Microbiology	30	10	75	0	5				
	ZSL620	Laboratory Haematology and Coagulation	30	15	50	0	6				
	ZSL621	Molecular Biology Techniques in Medicine	25	25	40	0	5				
	ZSL622	Laboratory Immunology and Immunochemistry	20	15	50	0	5				
	ZSL623	Automation in MLD	6	4	30	0	2				
Mandatory	ZSL624	Quality Control in MLD	6	4	25	0	2				
	ZSL627	Clinical Skills III	10	10	125	0	7				
	ZSL628	Bachelor's Thesis	0	0	270	0	10				
		Elective course	10	5	15	0	2				
	TOTAL (M	andatory courses)	235	148	805	0	60				
	ZSL625	Urgent Laboratory Diagnostics	10	5	15	0	2				
	ZSL629	Immunogenetics	10	5	20	0	2				
	1 elective	course is mandatory									

IV. EXAM AND COURSE ENTRY REQUIREMENTS

			EXAM ENTRY
CODE	COURSE	CORSE ENTRY REQUIREMENTS	REQUIREMENTS
	Informatics and Statistics in		In accordance with the
	Health Care	-	Ordinance on the Study
ZSZ634			and System of Studying
	Social and Health Legislation		In accordance with the
		-	Ordinance on the Study
ZSZ635			and System of Studying
-	Basics of Health Care		In accordance with the
	Management	-	Ordinance on the Study
ZSZ604			and System of Studying
	Ethics in Health Care	-	In accordance with the
			Ordinance on the Study
ZSZ605			and System of Studying
	Physical Training I	-	In accordance with the
			Ordinance on the Study
ZSZ606			and System of Studying
	English for Medical		In accordance with the
	Laboratory Diagnostics I		Ordinance on the Study
ZSZ630			and System of Studying
	Health Care Psychology	-	In accordance with the
			Ordinance on the Study
ZSZ608			and System of Studying
	Communication Skills	-	In accordance with the
			Ordinance on the Study
ZSZ609			and System of Studying
	Hygiene and Epidemiology	-	In accordance with the
			Ordinance on the Study
ZSZ610			and System of Studying
	Sociology of Health	-	In accordance with the
			Ordinance on the Study
ZSZ611			and System of Studying
	Public Health	-	In accordance with the
			Ordinance on the Study
ZSZ613			and System of Studying
	Biochemistry	-	Completed lectures,
ZSZ614			seminars and exercises

	Biophysics	-	In accordance with the
			Ordinance on the Study
ZSZ615			and System of Studying
	Anatomy	-	In accordance with the
			Ordinance on the Study
ZSZ616			and System of Studying
	Physiology	-	In accordance with the
			Ordinance on the Study
ZSZ617			and System of Studying
	Biology	-	Completed lectures and
ZSZ618			seminars
		-	In accordance with the
	Embryology and Histology		Ordinance on the Study
ZSZ619			and System of Studying
	Basics of Nursing Care	-	In accordance with the
			Ordinance on the Study
ZSZ620			and System of Studying
	Introduction to laboratory		Completed lectures and
ZSL601	medicine		exercises
	Mathematics		In accordance with the
			Ordinance on the Study
ZSL602			and System of Studying
	General Chemistry and	-	Completed lectures and
ZSL633	Stoichiometry		exercises
	Organic Chemistry		Completed lectures and
ZSL603			exercises
	Analytical Chemistry	-	Completed lectures and
ZSL632			exercises
	Clinical Skills I	-	Completed lectures and
ZSL605			exercises
ZSZ621	Introduction to Scientific Work	-	-
		-	In accordance with the
ZSZ622	Use of Science Technology		Ordinance on the Study
			and System of Studying
		-	In accordance with the
ZSZ623	Physical Training II		Ordinance on the Study
			and System of Studying
	English for Medical Laboratory	Passed English for Medical	In accordance with the
767604	Diagnostics II	Laboratory Diagnostics I I	Ordinance on the Study
252631	Dethe schusie les		and System of Studying
	Pathophysiology		In accordance with the
757625		-	ordinance on the Study
232625	Dathalagu		and System of Studying
	rathology		In accordance with the
757626		-	ordinance on the Study
252626			and System of Studying

	Microbiology and		In accordance with the
	Parasitology	-	Ordinance on the Study
ZSZ627			and System of Studying
	Pharmacology		In accordance with the
		-	Ordinance on the Study
ZSZ628			and System of Studying
	Basics of Haematology and		Completed lectures,
ZSL606	Coagulation	-	seminars and exercises
	Physical methods in MLD		Completed lectures,
ZSL607		-	seminars and exercises
	Biochemistry II		In accordance with the
		-	Ordinance on the Study
ZSL608			and System of Studying
	Cellular biology with		In accordance with the
	genetics basics	-	Ordinance on the Study
ZSL609			and System of Studying
	Cytology and Histology		In accordance with the
		-	Ordinance on the Study
ZSL610			and System of Studying
	Laboratory		In accordance with the
	Histopathological		Ordinance on the Study
ZSL611	Techniques		and System of Studying
	Instrumental Techniques in		In accordance with the
	MLD	-	Ordinance on the Study
ZSL612			and System of Studying
	Computer Processing of		In accordance with the
	Laboratory Data (LIS)	-	Ordinance on the Study
ZSL613			and System of Studying
	Clinical Skills II	_	Completed lectures and
ZSL616			exercises
			In accordance with the
		-	Ordinance on the Study
ZSL615	Food Toxicology		and System of Studying
			In accordance with the
		-	Ordinance on the Study
ZSZ630	Emergency in Medicine		and System of Studying
	Clinical Biochemestry	Completed lectures and passed	In accordance with the
		exams Biochemistry II and	Ordinance on the Study
ZSL617		Physical methods in MLD	and System of Studying
	Basics of Transfusion		In accordance with the
	Medicine and		Ordinance on the Study
ZSL618	Transplantation		and System of Studying
	Clinical Microbiology	Passed exam Microbiology with	In accordance with the
		Parasitology	Ordinance on the Study
ZSL619			and System of Studying

	Laboratory Haematology	Completed lectures and passed	In accordance with the
	and Coagulation	exam Laboratory Haematology	Ordinance on the Study
ZSL620		and Coagulation	and System of Studying
	Molecular Biology		In accordance with the
	Techniques in Medicine	-	Ordinance on the Study
ZSL621			and System of Studying
	Laboratory Immunology		Completed lectures,
ZSL622	with Immunochemistry	-	seminars and exercises
	Automation in MLD		Completed lectures and
ZSL623		-	clinical skills
	Quality Control in MLD		Completed lectures and
ZSL624		_	exercises
	Clinical Skills III		Completed lectures and
ZSL627			exercises
			In accordance with the
		-	Ordinance on the Study
ZSL628	Final Thesis		and System of Studying
	Urgent Laboratory		Completed lectures and
ZSL625	Diagnostics		exercises
	Immunogenetics		In accordance with the
			Ordinance on the Study
ZSL629			and System of Studying

V. CURRICULA OF MANDATORY AND ELECTIVE COURSES

NAME OF THE COURSE		Informatics and St	nformatics and Statistics in Health Care								
Code	ZSZ634		Year of study	ar of study 1							
Course teacher	Antonela Assistant	a Matana, PhD, t Professor	Credits (ECTS)	2							
Associate teachers	-		Type of instruction (number of hours)	L 10	S 10	E 20	Т				
Status of the course	Mandato	pry	Percentage of application of e-learning	lication 20%							
		COURS	E DESCRIPTION								
Course enrolment requirements and entry competences required for the course	No requi	rements									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - Describ - Explain - Select t research - Apply ir - Use tex tabular d - Use m database - Indeper - Use res - Unders - Explain - Explain	Inter completing this course, students will be able to: Describe and explain the basic concepts of informatics and health information systems; Explain and apply computational techniques in the process of health care; Select the relevant databases applicable to the process of health care and for studying a esearch; Apply information technology in all communication processes in healthcare institutions Use text processing and tabular data processing software, creating documents, present abular data; Use medically oriented search engines, browse medical literature in the Medi latabase, use Boolean operators for searching medical content on the Internet; Independent creation of databases Use research methodology and statistical methods and procedures in medicine Understand the concepts of measurements in research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research; Explain the different ways of presenting the data collected in the research;									
	Format instructi L,S,E	of Class unit ion The basic con development	cepts of informatics and its in of knowledge and i	mportanc mprovem	e for the nent of	Class ł 5	nour				
		professional profe	practice			_					
	L,S,E	Hardware and	d software			5					
Course content	L,S,E	System softw	are, application software, us	er softwa	re	5					
broken down in detail by weekly class schedule (syllabus)	L,S,E	Data types, population. E distributions.	data analysis in researd stimation of population para Fundamentals of statistical i	ch. Sam ameters E nference	ple and Empirical	5					
	L,S,E	Basic forms o the aim of lea	f computer application in dat arning and research (Medline	abase sea databas	arch with e)	5					
	L,S,E	Healthcare in	formation systems: principle	s and lev	els	5					
	L,S,E	Application of processes.	of informatics in improving	g the he	ealthcare	5					
	L,S,E	Application o processes in I	f information technology in a nealth care institutions.	all commu	unication	5					

Format of instruction	 ☑ lectures ☑ seminars and ☑ exercises □ on line in e □ partial e-learn □ field work 	worksho ntirety iing	ops	 independent assignments multimedia laboratory work with mentor (other) 			
Student responsibilities	Regular class att Active participat Password for AA	endance ion in th I EduHr	- learnir	ng			
Screening student work (name the proportion of ECTS	Class attendance Experimental		Research	Practical training			g
credits for each	work		Report				
activity so that the total number of ECTS	Essay		Seminar essay	y 0.5	(I	Other)	
credits is equal to the	Tests		Oral exam		((Other)	
course)	Written exam	1.5	Project		((Other)	
Grading and evaluating student	Eval Written exam Seminar essay Total	uation i	ndicators	Success (points)Share in grad3071024010			re in overall grade (%) 75 25 100
the final exam			PERFORMAN	CE AND GRADE	RATIO		
	Grading (%		meets the minim	num criteria sufficient (2)			
	70-79.9		average success	good (3)			
	80-89.9		above-average s	uccess		ve	ry good (4)
	90-100		outstanding succ	cess excellent (5)			
Required literature			Title		copies libr	in the ary	Availability via other media
library and via other media)	Kern J, Petrovečl Zagreb: Medicin B.Petz, Osnovne Naklada Slap, Jas	ki M, ure ska Nakl statistič strebarsl	ednici. Medicinski ada; 2009. ke metode za ne ko, 1997	a informatika. matematičare,			
Optional literature (at the time of submission of study programme proposal)	 van Bemmel J Springer-Verlag, Coiera E. Guid Shortliffe E, Ci Care and Biomed Somek, M. Skr informatiku, 201 Ferenczi E, Mu Medicinska nakla 	H, Muse 1997. e to hea mino JJ, dicine. N ipta iz ir 0. uirhead I ada; 201	n MA (eds). Hand urednici. Biomed ew York: Springe nformatike. Zagre N. Doktor u jedno 2.	dbook of Medica 2. izd. London: A dical Informatics r; 2006. eb, Zdravstveno om potezu: Stati	l Informa rnold; 20 : Compu veleučiliš stika i ep	atics. He 03. ter Appl ite, e-str idemiolo	idelberg: ications in Health ranice Katedre za ogija. Zagreb:
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qu Exam passin Committee External eva 	ality ana g rate ai for conti luation	alysis by students nalysis rol of teaching re	and teachers ports			
Other (as the proposer wishes to add)	-						

NAME OF THE COURSE		Social and Health Legislation									
Code	ZSZ635		Year of study	1.							
Course teacher	Jozo Čizi tenure	mić, full professor	Credits (ECTS)	2.							
Associate teachers	Nina Mi assistan	šić Radanović, t professor	Type of instruction (number of hours)	L 15	S 15	E	Т				
Status of the course	Mandat	ory	Percentage of application of e-learning	Up to 20)%						
		COURSE DESCRIPTION									
Course enrolment requirements and entry competences required for the course	No requ	No requirements									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After list - - - - - -	 After listening to lectures, independent learning and passing the exam, students w Recognize and connect the concepts and basic contents of health law Understand the basics of health law. Identify and clarify the basic criteria of legal responsibility of health profe rights and obligations of health professionals in performing their activities Clarify evaluation of healthcare activities Explain the work and structure of professional chambers. Understand and explain the position of the health worker in relation to disciplinary, civil and criminal liability. Recognize and apply the fundamental rights of patients at work. 									
Course content broken down in detail by weekly class schedule (syllabus)	L/S L/S L/S L/S	The concept and other scientific The concept of measures, level forms of Rights and oblig activities (Provid between workers secret; Obligation another doctor; S Quality assurance training; Profe Work Chambers of He	 other scientific disciplines and the principles of health care. The concept of health care and social care , health care measures, levels of health care, content and organizational forms of health care, health care institutions Rights and obligations of health professionals in performing activities (Providing and denying assistance; Mutual relations between workers and patients; Appeal of conscience; Business secret; Obligation to report; Keeping medical records; Choosing another doctor; Searching for a doctor; Health professionals as witnesses and experts). Quality assurance of the provided health service (Professional training; Professional supervision over the work of health workers; Professional chambers). 								
	L/S	Chamber; Exer Chamber; Pul Chamber; Bodies Cooperation of t with other bodi membership fees Disciplinary li violations; S Disciplinary bo Initiation of disci of the law; Sta	Chamber; Exemptions from mandatory association in the Chamber; Public powers of the Chamber; Affairs of the Chamber; Bodies of the Chamber; Supervision of the Chamber; Cooperation of the Chamber with the Ministry of Health and with other bodies; Notification of the Chamber; Payment of membership fees and other financial obligations of members of the Chamber). Disciplinary liability of health care workers (Disciplinary violations; Serious and minor disciplinary violations; Disciplinary bodies; Disciplinary measures; Money Fine; Initiation of disciplinary proceedings; Appropriate application of the law; Statute of limitations; Misdemeanor liability),								
	L/S	F	undamental rights of patient	s.		2/	2				

Format of instruction	X lectures independent a X seminars and workshops multimedia exercises laboratory on line in entirety work with me partial e-learning (other) field work (other) Regular class attendance. Image: class attendance and						ents		
Student responsibilities	Regular class atte Active participat Password for AA	endance ion in th I EduHr	e teaching proce electronic identi	access to e	- learnir	ng.			
Screening student work (name the	Class attendance	Class Research						g	
proportion of ECTS credits for each	Experimental work		Report						
activity so that the total number of ECTS	Essay		Seminar essa	у		(Other)		
credits is equal to the	Tests		Oral exam			(Other)		
ECTS value of the course)	Written exam	2	Project			(1	Other)		
	Eval	luation i	ndicators		Succe (point	ess ts)	Share i	n overall grade (%)	ò
	Written exam				20			100	
Grading and	TOLAI				20			100	
evaluating student			PERFORMAN	CE AN	ND GRADE	RATIO		<u> </u>	
work in class and at	Achieved suc	cess	Criteria					Grade	
	60-69,9	(,0)	meets the minin	num c	criteria		su	fficient (2)	
	70-70 0	60-69,9 meets the minimum criteria						good (3)	
	10-13,3	70-79,9 average success						g00u (3)	
	80-89,9		above average s	ucces	S		ve	ry good (4)	
	80-89,9 90-100		average success above average s exceptional succ	ucces cess	S		ve ex	ry good (4) cellent (5)	
	80-89,9 90-100		above average success above average s exceptional succ Title	ucces cess	S	Num copies libi	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	via a
	Udžbenik <i>Osnov</i>	e zdravs	average success above average s exceptional succ Title tvenog prava, au	ucces ess	is Jozo Čizmić	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	via a
	Udžbenik <i>Osnov</i> i Ljubica Žunić	e zdravs ć, Split 20 SANDIĆ,	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrav.	ucces cess itori; . a Reda	Jozo Čizmić ak og prava,	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
	Udžbenik <i>Osnov</i> i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006.	e zdravs ć, Split 20 SANDIĆ, S	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrav.	ucces cess itori; . a Reda stvend	Jozo Čizmić ak og prava,	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	via a
	Udžbenik Osnov i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni	e zdravs ć, Split 20 SANDIĆ, s i aspekti godina V	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrav. medicinske dokur	ucces ess itori; . a Reda stvend menta	Jozo Čizmić ak og prava, acije,	Num copies libi	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
	Udžbenik <i>Osnov</i> i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., <i>Pravni</i> «Pravo i porezi», ČIZMIĆ, J., <i>Pojam</i>	e zdravs ć, Split 20 SANDIĆ, S i aspekti godina X o, izvori i	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrav. medicinske dokur (VI., 2007., br. 10 načela medicinsk	ucces sess itori; . a Reda stvend menta ., str. : og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV	e zdravs ć, Split 20 SANDIĆ, S i aspekti godina X I, izvori i 1., 2007.	average success above average s exceptional succ Title tvenog prava, au 014, web knjižara S., Osnove zdrav medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534	ucces ess atori; . a Reda stveno menta ., str. : og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
Required literature	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Me	e zdravs ć, Split 20 šANDIĆ, ž i aspekti godina X h, izvori i (1., 2007. edicina i	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrav. medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20	ucces sess itori; . a Reda stvend menta ., str. 3 og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li	e zdravs 5, Split 20 5ANDIĆ, 3 i aspekti godina X 1, izvori i 1, 2007. edicina i iječnička	average success above average s exceptional succ Title tvenog prava, au 014, web knjižara S., Osnove zdrava medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi	ucces ess a Reda stveno menta ., str. 2 og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni čizbalć	Num copies libr	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Lj aspekti, zbornik r Split 2007	e zdravsi ć, Split 20 SANDIĆ, i i aspekti godina X n, izvori i i (1., 2007. edicina i iječnička radova, u	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdravs medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO	ucces sess atori; . a Reda stvend menta , str. 3 og pro 007. cinski ć, S. –	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J.,	Num copies libi	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik <i>Osnov</i> i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., <i>Pravni</i> «Pravo i porezi», ČIZMIĆ, J., <i>Pojam</i> i porezi», god. XV BOŠKOVIĆ, Z., <i>Ma</i> Zbornik radova <i>Li</i> <i>aspekti</i> , zbornik r Split, 2007. Zakon o kvaliteti	e zdravs ć, Split 20 SANDIĆ, 1 godina X n, izvori i vl., 2007 edicina i iječnička radova, u zdravstv	average success above average s exceptional succ Title tvenog prava, au 014, web knjižara S., Osnove zdrava medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO	ucces ess atori; . a Reda stveno menta ., str. : og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., L8/18	Num copies libr	ve ex ber of s in the rary	y good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnova i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li aspekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv	e zdravsi ć, Split 20 SANDIĆ, i i aspekti godina X n, izvori i i (1., 2007. edicina i jiječnička radova, u zdravstv venoj zaš	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdravs medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN titi, NN br. 100/3	ucces ess atori; . a Reda stvend menta	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni čIZMIĆ, J., 18/18 25/19,	Num copies libi	ve ex ber of s in the rary	ry good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnova i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li aspekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv 147/20	e zdravs 5, Split 20 5ANDIĆ, 1 i aspekti godina X i, izvori i ječnička radova, u zdravstv venoj zaš	average success above average s exceptional succ Title tvenog prava, au 014, web knjižara S., Osnove zdrava medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN titi, NN br. 100/2	ucces ess a Reda stveno menta ., str. : og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., 18/18 25/19,	Num copies libr	ve ex ber of s in the rary	y good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li ospekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv 147/20 Kodeks medicins 139/15	e zdravst ć, Split 20 č SANDIĆ, s i aspekti godina X n, izvori i i (1., 2007. edicina i jiječnička radova, u zdravstv venoj zaš	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdravs medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN titi, NN br. 100/: i deontologije, N	ucces sess atori; . a Reda stvend menta og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., 18/18 25/19, 55/08,	Num copies libr	ve ex ber of s in the rary	y good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li aspekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv 147/20 Kodeks medicins 139/15 Podzakonski pro	e zdravs 5, Split 20 5ANDIĆ, 5 i aspekti godina X n, izvori i 1 iječnička radova, u zdravstv venoj zaš ske etike pisi i pro	Title Title Title tvenog prava, au D14, web knjižara S., Osnove zdrava medicinske dokur (VI., 2007., br. 10) načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN ititi, NN br. 100/3 i deontologije, N	ucces ess a Reda stvend menta ., str. 3 og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., 18/18 25/19, 55/08, leškog)	Num copies libi	ve ex ber of s in the rary	y good (4) ccellent (5) Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li aspekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv 147/20 Kodeks medicins 139/15 Podzakonski pro prava.	e zdravst ć, Split 20 ć, Split 20 ć, Split 20 č, Split	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdravs medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN titi, NN br. 100/3 i deontologije, N	ucces sess a Reda stvend menta ., str. 3 og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., 18/18 25/19, 55/08, leškog)	Num copies libr	ve ex ber of s in the rary	Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li aspekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv 147/20 Kodeks medicins 139/15 Podzakonski pro prava. Zakon o radiološ 141/13, 39/15	e zdravsi ć, Split 20 SANDIĆ, i i aspekti godina X n, izvori i i rizvori i i iječnička radova, u zdravstv venoj zaš ske etike pisi i pro-	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrava medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN titi, NN br. 100/: i deontologije, N opisi autonomnog	ucces ess a Reda stvend menta ., str. 3 og pro	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., 18/18 25/19, 55/08, eškog) br.	Num copies libi	ve ex ber of s in the rary	Availability v other media	ria a
Required literature (available in the library and via other media)	Udžbenik Osnovi i Ljubica Žunić BABIĆ, T. – ROKS Zagreb, 2006. ČIZMIĆ, J., Pravni «Pravo i porezi», ČIZMIĆ, J., Pojam i porezi», god. XV BOŠKOVIĆ, Z., Ma Zbornik radova Li aspekti, zbornik r Split, 2007. Zakon o kvaliteti Zakon o zdravstv 147/20 Kodeks medicins 139/15 Podzakonski pro prava. Zakon o radiološ 141/13, 39/15, 2	e zdravst ć, Split 20 SANDIĆ, S i aspekti godina X j, izvori i i vl., 2007. edicina i jiječnička radova, u zdravstv venoj zaš ske etike pisi i pro koj i nuk 130/17, d neioniz	average success above average s exceptional succ Title tvenog prava, au D14, web knjižara S., Osnove zdrava medicinske dokur (VI., 2007., br. 10 načela medicinsk , br. 6, str. 2534 pravo, Zagreb, 20 pogreška – medi rednici JANKOVIO vene zaštite, NN ititi, NN br. 100/3 i deontologije, N opisi autonomnog clearnoj sigurnos 118/18, 21/22 zirajućih zračenja	ucces sess atori; a a Reda stvend menta , str. 3 og pro cinski ć, S. – br. 11 18, 12 JN br. g (stal ti, NN	Jozo Čizmić ak og prava, acije, 318. ava, «Pravo i pravni ČIZMIĆ, J., 18/18 25/19, 55/08, leškog) br. br. 91/10, ,	Num copies libr	ve ex ber of s in the rary	Availability v other media	ria a

	Zakon o sestrinstvu, NN br. 121/03, 117/08, 57/11
	Zakon o fizioterapeutskoj djelatnosti, NN br. 120/08.
	Zakon o primaljstvu, NN br. 120/08, 145/10
	Zakon o liječništvu, «Narodne novine», broj 121/03,
	117/08
	Zakon o zaštiti prava pacijenata, NN br. 169/04, 37/08
Optional literature (at the time of submission of study programme proposal)	HERVEY, T. – McHALE, J. V., <i>Health Law and the European Union</i> , Cambridge, 2004. LAUFS-UHLENBRUCK, <i>Handbuch des Arztrechts</i> , Munchen, 2002. DEUTSCH-SPICKHOFF, <i>Medizinerecht</i> , Berlin, 2003. STAUCH, M. – WHEAT, K., <i>Sourcebook on Medical Law</i> , London-Sydney, 1999., RADIŠIĆ, J., <i>Medicinsko pravo</i> , Beograd, 2004. KLARIĆ, P., <i>Odgovornost za štete nastale uporabom medicinskih tehničkih uređaja</i> , Pravo u gospodarstvu, 4/2002. PETRIĆ, S., <i>Građanskopravna odgovornost zdravstvenih djelatnika</i> , Zbornik PF Sveučilišta u Rijeci. 2005/vol 26. br. 1., str. 81.
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE	:	Basics of Health Ca	are Manag	ement					
Code		ZSZ604							
Study programme	Commo	n	Year of stu	ıdy	1 st				
Course teacher	Dejan K profess	ružić, PhD, Full or tenure	Credits (EC	CTS)	1,0				
	Ana Jur	as, PhD, Research			L	S	E	Т	
Associate teachers	associat	e	Type of ins	struction					
	Ante M lecturer	hanović, PhD, Senior	(number d	of nours)	10	4	5		
Status of the course	Mandat	ory	Percentag of e-learni	e of application ng	Up to 20)%			
		COURS	E DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requirements								
Course objectives	Introdu and lead organiza organiza	Introduce students with basic concepts and available methods and tools of management and leadership in healthcare. Acquired knowledge should enable students to understand organizational, management and leadership processes in healthcare and healthcare							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Organizations. Critically consider and evaluate management concepts and theories in the context of health and health organizations; Propose to the current situation an adequate organizational structure, organization culture and manner of planning in the health organization; Propose to the current situation an adequate approach and methods of workforce management in the health organization; Critically analyse various interpersonal processes, dynamics and communication in teamwork and propose an adequate leadership style in health organization; Propose to the current situation adequate methods and tools of control, especially quality control in the health organization; Critically consider work situations in the health organization and propose the 						xt of ional ce in Ily		
Course content broken down in detail by weekly class schedule (syllabus)	 application of adequate principles and methods of ethical management. Conceptual definition of management. Basic principles, theories and functions of management. Application of management in the context of health and healthcare organizations. The importance of applying ethics in the management of healthcare organizations. Planning as a function of management. Implementation of the planning function in healthcare organizations. Organizing as a function of management. Implementation of the organizing function in health organizations. Staffing as a function of management. Implementation of the staffing function in healthcare organizations. Leadership as a function of management. Implementation of the leadership function in health organizations. Leadership as a function of management. Implementation of the leadership function in health organizations. Control as a function of management. Implementation of the leadership function in health organizations. 							e re in tion in tion in	
Format of instruction	 ☑ lectu ☑ semin ☑ exerce □ or ☑ partia □ field 	res nars and workshops :ises 1 <i>line</i> in entirety al e-learning work		 ☑ independent a □ multimedia □ laboratory □ work with me □ (other) 	nt assignments I mentor er)				

Student responsibilities	In accordance to Regular class atte Active participati Password for AA	cordance to Rules of studying and Deontological code for USSM students. Ilar class attendance. re participation in the teaching process. word for AAI EduHr electronic identity for access to e - learning.										
Screening student work (name the	Class attendance	0,20	Research		Practica	ll trainin	g 0,20					
proportion of ECTS credits for each	Experimental work		Report									
activity so that the total number of ECTS	Essay		Seminar essay		(Other)						
credits is equal to the FCTS value of the	Tests		Oral exam		(Other)						
course)	Written exam	0,60	Project		(Other)						
	Regular class atte 1. lectures 2. seminar 3. active p	endance: - minimui s 70% and articipatio	m 70% of all lectu d exercises 80%, n on classes.	ires,								
	Eval	uation ind	icators	Succes (point	ss s)	Share i	n overall grade (%)					
Grading and	Attendance and seminars (for 10	d activity o 00% atten	n lectures and dance)	2			10					
evaluating student	Written exam			14			70					
work in class and at	Practical training 4						20					
the final exam	Total											
	PERFORMANCE AND GRADE RATIO											
	Achieved success Criteria percentage (%)						Grade					
	60-69,9	m	eets the minimur	n criteria		su	fficient (2)					
	70-79,9	av	verage success		good (3)							
	80-89,9	at	ove average succ	cess	very good (4)							
	90-100	e,		5	Num	ex ber of	cellent (5)					
Required literature			Title		copies lib	s in the rary	Availability via other media					
(available in the	Juras, A. (2021). Svoučilišto u Split	Osnove me	enadžmenta u zdi Inlit	ravstvu,								
media)	Buble, M. (2009)	. Menadžn	nent. Ekonomski ⁻	fakultet.								
	Sveučilište u Spli	tu, selecte	d chapters.									
	Lectures' and exe	ercises' ma	aterials									
Optional literature (at the time of submission of study programme proposal)	Kalauz, S. (2014). Zagreb. Murray, E. (2017 <i>care</i> . FA Davis Cc Walshe, K., Smith	. Organiza). Nursing ompany, Pl n, J. (Eds.).	cija i upravljanje i leadership and m niladelphia, SAD. (2011). Healthca	u zdravstvenoj nanagement: F re manageme	njezi. N or patie nt. McG	Aedicinsl Int safety Iraw-Hill	ka naklada, <i>r and quality</i> Education, UK.					
Quality assurance	 Teaching quantum sector 	ality analy	sis by students ar	nd teachers								
methods that ensure	 Exam passin Committee f 	g rate ana	lysis of teaching repo	rts								
competences	 External eva 	luation	or reaching repu									
Other (as the												
proposer wishes to add)												

NAME OF THE COURSE	OURSE Ethics in Health Care								
Code	ZSZ605			Year of study 1.					
Course teacher	Ana Ćur Assistan	ković, P t profes	hD, sor	Credits (ECTS)	1.5				
	Ana Jelià	čić, PhD	,	Type of instruction	L	S	E	Т	
Associate teachers	Assistan	t profes	sor	(number of hours)	20	10			
Status of the course	Mandate	ory		Percentage of application of e-learning	Under 2	0%			
	1		COURS	E DESCRIPTION					
Course enrolment requirements and entry competences required for the course	No requ	irement	:S						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - explain - disting - describ - explain - to pror - analyze - adopt c - make, s conseque duty	ain the concept of ethics as a philosophical discipline and its historical development, nguish ethics from morality, ribe and explain the history of health ethics, ribe, explain and apply the principles of health ethics, ribe, explain and apply the code of ethics, ribe, explain and take a critical stance in various ethical dilemmas in health practice, ain the models of ethical decision-making in health practice, ain the importance of professional secrecy, omote and respect the rights of man, child and patient, yze and evaluate individual cases and situations, ot ethical values, e, accept and face, deal with, one's own ethical and moral decisions and the quences of those decisions in the context of a sense of personal responsibility and							
	duty. Tipe instruc L	of ction	History and	Numb hou 1	er of Irs				
			discipline: t term, t	he foundation of ethics, the he subject of ethics, ethics a	e meaning and moral	of the ity			
	L		Object and dignity, hur	subject of ethics: man as a nan rights, value and good - and guilt	person - ł · evil, cons	numan science	2		
	L		Bioethics: ł	history, concept, meaning, a	application	n, role,	2		
Course content	L		Introductio	on to health ethics, medical	ethics: hi	story,	2		
broken down in detail	1/9	s	Ethics a	and science: ethics in scient	ific resear	ch	1/	1	
by weekly class schedule (syllabus)	L/S	S	Ethics and respect, disc	d fundamental human right rimination, violation of pat to decide)	s (equality ients' righ	and ts, right	2/	2	
	L		Ethics and c with colleagu	ommunication in medicine ues, communication with th the relationship with the p	(commun e patient, atient)	ication models	2		
	L/9	S	Confidentia	lity of information and prot	essional s	ecrecy	2/	2	
	L/S	S	Ethical aspe	ects of informed consent, pa informed choice	atient edu	cation,	2/	2	
	L/S	S	Ethics c	ommittees and codes of eth professions	nics of hea	llth	2/	1	
	L/S	S	Ethics of care	e, palliative care, ethical iss end of life and death	ues relate	d to the	2/2		

Format of instruction	 ☑ lectures ☑ seminars and workshops □ exercises □ on line in entirety □ partial e-learning □ field work 				dependent ultimedia poratory prk with me (other	assignm entor)	nents	
Student responsibilities	Regular class att Active participat Password for AA	endance. ion in the I EduHr e	- learniı	ng				
Screening student	Class	Class Research I						g
proportion of ECTS credits for each	Experimental work		Report					
activity so that the total number of ECTS	Essay		Seminar essa	y 0.3	0	(Other)	
credits is equal to the	Tests		Oral exam			(Other)	
course)	Written exam	1.20	Project			(Other)	
Grading and	Eva Written exam Practical trainin Total		Succe (poin 40 10 50	ess ts)	Share i	in overall grade (%) 80 20 100		
evaluating student			PERFORMAN	CE AN	ID GRADE	RATIO		
the final exam	Achieved suc percentage	cess (%)	Criteria					Grade
	60-69,9	r	neets the minin	num c	riteria		su	fficient (2)
	80-89,9		above average s	ucces	S		ve	ry good (4)
	90-100	e	exceptional succ	cess		-	ex	cellent (5)
	Title					Num copies libi	ber of 5 in the rary	Availability via other media
	Etika u: Beričić, B. Filozofija; sažeto e-izdanje. Ibis grafika Zagreb 2012. (str. 127153.)							
Required literature	Čović, A, Pojmovna razgraničenja: moral, etika, medicinska etika, bioetika, integrativna bioetika // Bioetika i dijete : Moralne dileme u pedijatriji / Čović, Ante ; Radonić, Marija (ur.). Zagreb: Pergamena ; Hrvatsko društvo za preventivnu i							
(available in the library and via other media)	Tom L. Beauchar istraživanja : čas 3-4 (23-24), 199	np, Načel opis za op 5.	a u bioetici. Dru oća društvena p str. 53	uštven itanja, 3-544	a , Vol. 5 No.			
	Svjetsko liječničk Medicinska nakli	ko udruže ada Zagre	nje. Priručnik m b 2010 (str. 36	edicir	ske etike. 82 -93)			
	Frković A. Medic	ina i bioe	tika. Pergamena	a Zagr	eb 1010.			
	(str. 24,-27,, 129	144., 15	2167.) 2: Priručno čtiv	0 510	učiličto u			
	Zagrebu, Medici	snki fakul	tet. Zagreb 199	5. (str.	. 6775.)			
	Talanga, J. Odno etici. Bogoslovsk	s liječnika a smotraj	i pacijenta pre , Vol. 76 No. 1, 2	ma mo 2006. :	edicinskoj str. 47-59			
	Pozaić V. Teološ 4 (2001). str. 437	ki vidici lij 7-450	ečničke tajne. C)bnov	. Život (56)			

Optional literature (at the time of submission of study	
programme proposal)	
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE	E	Physica	al Culture	el 👘							
Code	ZSZ606			Year of stu	ıdy	1					
Course teacher	Željko K Assistan	ovačević, it Profess	, PhD sor	Credits (E	CTS)	1,5	1,5				
Associate teachers				Type of in (number o	struction of hours)	L 3	S 8	E 14	Т 38		
Status of the course	Mandat	ory		Percentag of e-learn	e of application						
			COU	IRSE DESCRIPT	TION						
Course enrolment requirements and entry competences required for the course	No requ	o requirements									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon cc - Harmo - Manag	Jpon completion of the course students will: Harmonize and improve physical and spiritual health Manage and improve the quality of healthy living									
Course content broken down in detail by weekly class schedule (syllabus)	Form instru	nat of uction T T T	Fram Specia Cus	ework prograr athletics, al program; ba colleyball, hikin stom program Elective prog	Class unit						
Format of instruction	□ lectur □ semir □ exerc □ on □ partia X field w	res nars and .ises <i>line</i> in ei al e-learn vork	workshops ntirety ing	5	 independent assignments multimedia laboratory work with mentor (other) 						
Student responsibilities	Regular Active p Passwor	class atte articipati d for AA	endance. ion in the t I EduHr ele	teaching proce ectronic identi	ess. ty for access to e	- learning	5				
Screening student work (name the	Class attenda	nce	1,5	Research		Practical	training				
proportion of ECTS credits for each	Experim work	ental		Report							

activity so that the total number of ECTS	Essay		Seminar essay			(Other)			
credits is equal to the	Tests		Oral exam			(Other)				
ECTS value of the course)	Written exam		Project			(Other)			
	Eval		Success (points)		Share in overall grade (%)					
Cardina and	Class attendand Total	Class attendance Total						100 100		
evaluating student		PERFORMANCE AND GRADE RATIO								
the final exam	Grading (%	5)	Cr	iteria				Grades		
	60-69.9		meets the minimu	ım cri	teria		su	fficient (2)		
	70-79.9		average success				good (3)			
	80-89.9		above-average success				ve	ry good (4)		
	90-100		outstanding succe	SS			excellent (5)			
Required literature (available in the	Number of Title copies in the library						Availability via other media			
media)	Mišigoj Durakovi Zagreb;Kinezi	Višigoj Duraković M.tjelesna aktivnost i zdravlje. Zagreb;Kineziološki fakultet; 1999								
Optional literature (at the time of submission of study programme proposal)			, (
Quality assurance	 Teaching qu 	ality ana	lysis by students a	nd te	achers					
methods that ensure	 Exam passin 	g rate ar	nalysis							
the acquisition of exit	 Committee 	or contr	ol of teaching repo	orts						
competences	 External eva 	luation								
Other (as the proposer wishes to			Committee for control of teaching reports External evaluation							

NAME OF THE COURSE	E English for Medical Laboratory Diagnostics I										
Code	ZSL630			Year of stu	dy	1.					
Course teacher	Sonja Ko Senior le	oren, MA ecturer	λ,	Credits (EC	TS)	1,5					
Associate teachers		/	,	Type of ins	truction f hours)	L	S	E	Т		
					(); · · ·		30				
Status of the course	Mandat	ory		of e-learning	e of application ng	Up to 10%					
	ſ		COU	IRSE DESCRIPT	ION						
Course enrolment requirements and entry competences required for the course	Prior kno	owledge	of English	language							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - develo laborato - find rel - recogn - presen - develo	fter completing the course students will be able to: develop language skills of speaking, listening, reading, and writing in the field of medical boratory diagnostics, find relevant information, and formulate the key idea, recognize and explain medical terminology in the field of medical laboratory diagnostics, present topics in their professional field, develop communication skills in the field of medical laboratory diagnostics.									
	S1 Introduction S2 Organ systems of the Human Body I								<u>2</u> 2		
	\$3	3 Organ systems of the Human Body II							2		
	S4	Suff	ixes, prefix	es, and termin	ology				2		
	<u>\$5</u>	Con	nposition a	nd Formation	of Blood I				2		
Course content	56	Con	nposition a	nd Formation	of Blood II			4	2		
broken down in detail	57	BIOC	od Types					-	2		
by weekly class	50	Δna	emias					-	<u>,</u>		
schedule (syllabus)	<u> </u>	Med	dical Ethics						>		
		Res	earch Stud	ies and Article	5				2		
	S12	Epic	demiology					2	2		
	S13	Rev	ision						2		
	S14	Pres	sentations	of seminar pap	pers			Ĩ	2		
	S15	Pres	sentations	of seminar par	pers				2		
Format of instruction	 lectur x semina exerc on partia field v 	res ars and v ises <i>line</i> in e al e-learn work	vorkshops ntirety iing		 independent assignments multimedia laboratory work with mentor (other) 						
Student responsibilities	In accore	dance to	Rules of st	tudying and De	ontological code	e for USSN	Л studen	ts.			
Screening student	Class			Research		Practical	training				
work (name the	attenda	attendance									
proportion of ECTS credits for each	Experim work	ental		Report							
activity so that the	Essay			Seminar essay	/ 0,45	(O [.]	ther)				
credits is equal to the	Tests			Oral exam		(0 [.]	ther)				

ECTS value of the course)	Written exam	1,05	Project		(Other)							
Grading and evaluating student work in class and at the final exam	Written exam											
			Title		Number of copies in the library	Availability via other media						
Required literature (available in the	Chabner DE. The Louis: Saunde	e <i>Languag</i> rs Elsevier	e of Medicine. ; 2007	3th edition. St.								
library and via other media)	Glendinning, E.H - <i>Medicine</i> . Cam (selected chapte	., Howard, oridge: Car rs)										
	Žmegač Horvat A naklada Zagreb	A. Medical (radna bilj	ok. Medicinska									
Optional literature (at the time of submission of study programme proposal)	Režić P., Žurić-Havelka, S.: Introduction to Basic Medical Terminology for Health Professions, Zdravstveno sveučilište, Zagreb, 2013.											
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 											
Other (as the proposer wishes to add)												

NAME OF THE COURSE	Ξ	Health Care Psychology	ogy							
Code	ZSZ608		Year of study	1.						
Course teacher	Vesna A Associat	ntičević, PhD, te professor	Credits (ECTS)	2						
	Slavica H Associat	Kozina, PhD, te professor		L	S	E	Т			
Associate teachers	Varja Đơ Assistan Associat bases	pgaš, PhD, ht professor tes from teaching	Type of instruction (number of hours)	14	12	18				
Status of the course	Mandat	ory	Percentage of application of e-learning	То 10%						
	-	COURS	E DESCRIPTION	-						
Course enrolment requirements and entry competences required for the course	 Introducing students to basic knowledge about the impact of psychological factors on health and illness, as well as the impact of illness and physical disorders on the development of psychological problems To introduce students to the possibilities of applying psychological methods and techniques in health care, diagnosis, treatment and rehabilitation of diseases. To demonstrate to students the application of interviews and communication skills on patients with various diseases 									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon completion of the course the student will: - recognize and understand the importance of psychology in health care, - recognize and understand the characteristics of stress and adopt ways of coping with stress, - recognize and understand the connection between physical illnesses and mental states and the influence of mental states on the occurrence of illness,									

	- recognize the psychosocial manifestations of chronic diseases,										
	- recognize positive and negative health behaviors,										
	 know the psychological difficulties of patients in the hospital, recognize psychological difficulties related to pregnancy and childbirth, 										
	- know the psychological difficulties and interventions in rehabilitation processes after the										
	loss of bodily functions										
	- know the techniques of psychological care in the health professions										
	- recognize the applicability of communication principles in contact with patients										
	Form					τορία	CS			Student	
	of									hours	
	teaching										
	L+S+E	Unc	lerstan	din	g the importar	ice of	^f psycholog	v in heal	th care.	2+2+3	
	L+S+E	Hist	orv of	he	alth psycholog	zv. H	ealth psyc	, hology a	nd health	2+2+3	
		beh	avior. I	svo	chological heal	thcar	е				
	L+S+F	1+S+F Physical illness and mental conditions								2+2+3	
	2.0.2	Psv	chologi	cal	needs in disea	ses				2.2.0	
	1+S+F	Psv	chologi	cal	reactions to lo	ss of	bodily fund	tions		2+2+3	
Course content	2.0.2	Oua	alities fo	or n	sychological c	are	Souny rune			2.2.0	
broken down in detail		Que		51 P	sychological e	an e					
by weekly class	1+S+F	Psv	chologi	cal	difficulties of r	oatier	nts in hospi	tal		2+2+3	
schedule (syllabus)	2.0.2	Models of nsychological care								2.2.0	
	L+S+F	Stre	ess and	ph	vsical health					2+2+3	
		Stra	tegies	for	coping with st	ress					
		0110	regies								
	L+S+E Psychological manifestations of pregnancy and childbirth Psychological care skills								1+0+0		
									1.0.0		
	L+S+E Psychological care in health professions							1+0+0			
	2.3.2	Knowledge of psychological care									
	□x seminars and workshops										
Format of instruction	Lix exercises										
	u on line in entirety										
	□ partial e-learning										
	i field work										
Student	Regular class attendance.										
responsibilities	Active parti	cipat	ion in t	he t	teaching proce	SS.					
responsionnes	Password for	or AA	l EdúHr	ele	ectronic identi	y for	access to e	e - learni	ng		
Screening student	Class			Research			Practica	l training			
work (name the	attendance				Research			Tractice	in training		
proportion of ECTS	Experiment	al			Report						
credits for each	work				Report						
activity so that the	Essay				Seminar essa	y 0,1	L4	(Other)		
total number of ECTS						-					
creaits is equal to the	Tests				Oral exam			(Other)			
course)	Written exa	Written exam 1,86						((Other)		
		Eval	uation	ind	icators		Succe	ess	Share in ov	verall grade	
		(points) (%)	
	Written exam 40 93								,02		
Grading and evaluating student work in class and at the final exam	Seminar essay (presentation) 3 6,							98			
	Total						43		10	00	
	Achiover	PERFORMANCE AND GRADE RATIO							ada		
	nercont	Achieved success Criteria Grade									
	percent	age (/0/								

	60-69,9	sufficient (2)		fficient (2)					
	70-79,9	-79,9 average success			good (3)				
	80-89,9	very good (4)		ry good (4)					
	90-100	exceptional success	excellent (5)						
Required literature (available in the		Title	Number of copies in the library		Availability via other media				
library and via other media)	Havelka Meštrović A., H psihologija. Naklada								
	Class materials								
Optional literature (at the time of submission of study programme proposal)	Priest, H. (2014). Uvod u psihološku njegu u sestrinstvu i zdravstvenim strukama Marks, D. F., Murray, M., Evans, B., Estacio, E. V. (2011). Health Psychology. SAGE Publications Inc.								
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 								
Other (as the proposer wishes to add)									

NAME OF THE COURSE		Communication Skills										
Code	ZSZ609			Year of stu	ıdy	1.						
Course teacher	Vesna A Associat	ntičević, e profes	PhD sor	Credits (EC	CTS)	2	2					
Associate teachers	Endica Radić Hozo, PhD			Type of in:	Type of instruction (number of hours)		S	E	Т			
Associate teachers				(number o			0	18				
Status of the course	Mandate	ory		Percentag of e-learni	e of application	To 10%	То 10%					
	1		COU	RSE DESCRIPT	ION							
Course enrolment requirements and entry competences required for the course	No requ											
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Upon completion of the course the student will be able: to explain the basic laws of interpersonal communication, to understand the criteria for the division of communication according to the type and purpose of communication, to understand and explain the basics of information (diagnostic) communication, to understand and explain the basics of therapeutic communication, to improve basic communication skills, to develop complex communication skills for work in health care, to identify and resolve barriers to communication, to manage communication skills with people with disabilities and different ages, to identify and demonstrate basic barriers to communication with the patient and family member; 											
	Form of teachin L+E	g	Topic									
Course content	L+E		Information communication and interview technique						3			
broken down in detail by weekly class schedule (syllabus)	L+E	Со	Communication skills, abilities and prejudices Complex communication skills: Active listening and emaphic					2+	3			
	L+E	As	Assertiveness and communication with people with limited						3			
	L+E		Communication with people of different ages						3			
	L+E	L+E Breaking bad news and griefing						2+	3			
Format of instruction	x lectu semir x exer <i>on</i> partia	ires iars and cises <i>line</i> in e il e-learn work	workshops ntirety ing		 independent assignments multimedia laboratory work with mentor (other) 							
Student responsibilities	Regular class attendance Active participation in the teaching process Password for AAI EduHr electronic identity to access e-learning											
Screening student	Class attenda	nce	0,14	Research		Practical	training					
work (name the proportion of ECTS credits for each activity so that the	Experim work	ental		Report	port							
	Essay			Seminar essa	y	(0	ther)					

total number of ECTS credits is equal to the	Tests		Oral exam		(Other)			
ECTS value of the course)	Written exam 1,86		Project		(
	Eval	uation ind	licators	Suc (po	Success (points)		overall grade (%)		
	Attendance and seminars (for 1	d activity c 00% atten	on lectures and dance)		3		6,98		
	Written exam			4	0	ç	3,02		
Grading and	Total			4	3		100		
evaluating student work in class and at			PERFORMANC	E AND GRAD	E RATIO				
the final exam	Achieved suce percentage (cess Ci (%)	riteria			G	irade		
	60-69,9	m	meets the minimum criteria			sufficient (2)			
	70-79,9			go	good (3)				
	80-89,9	al	pove average suc	ccess		very	good (4)		
	90-100	ex	exceptional success				excellent (5)		
Required literature			Title		Num copie: lib	ber of s in the rary	Availability via other media		
library and via other media)	Lučanin, D., Despot Lučanin, J. (2010). Komunikacijske vještine u zdravstvu. Zdravstveno Veleučilište. Naklada Slap. Jastrebarsko.								
	Class materials								
Optional literature (at the time of submission of study programme proposal)	Knapp, M. L., Hall, J. A. (2010). Neverbalna komunikacija u ljudskoj interakciji. Naklada Slap. Jastrebarsko.								
	 Teaching qu 	ality analy	sis by students a	nd teachers					
methods that ensure	 Exam passing rate analysis 								
the acquisition of exit	 Committee for control of teaching reports 								
competences External evaluation									
Other (as the proposer wishes to add)									
NAME OF THE COURSE	:	Hygiene and Epidem	iology						
--	---	--	--	---	---	--	--	--	--
Code	ZSZ610								
Course teacher	Assoc. Pr Savicevio	rof. Anamarija Jurcev c, MD, PhD	Credits (ECTS)	3					
Associate teachers	Full Profi Mulic, M Assoc. Pr MD, PhD Asst. Pro Tomić, M Asst. Pro PhD Mentors	essor Rosanda ID, PhD rof. Ingrid Tripković, f. Iris Jerončić ID, PhD f Zlatka Knezović, from teaching bases	Type of instruction (number of hours)	s 20	5	Т			
Status of the course	Mandato	ory	Percentage of application	Up to 20)%				
		COURS	E DESCRIPTION						
Course enrolment									
requirements and entry competences required for the course	No requi	rements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - identify commun recogniti - group a identify i - analyze preventi - plan, in - collect vaccines - explain - explain of waste - explain - explain - explain - explain - explain - demon	mpleting the course, to and describe hygieni ity and explain the ca- inty and explain the ca- ind differentiate disea- infectious diseases in e existing data of impo- ve measures on the s- nplement and evaluat samples for laborator (cold chain), apply ep- methods of controllin and identify sources the importance and o- , especially medical a how to carry out and state keeping records	the student will be able to: ic-epidemiological concepts, suses of certain diseases, as we ases according to their epide sporadic and epidemic forms ortance to the community an pread of these diseases over se general and specific preven by tests, manipulate delivery, bidemiological surveys and bi- ng nosocomial infections of pollution (chemical, biologic control of healthy water and nd especially hazardous wast I supervise sterilization and con- stand storing samples	phenome well as me miologica d interpr a period ntion mea storage a asic proce gical and food, as ce lisinfectio	ena and p ethods of al charact et the im of time; asures and distri edures of physical) well as pr	problems f their eristics a pact of c bution o DDD me roper dis lures	in the nd ertain f asures posal		
	Form of teach L L,S	FormSubjectStudenteachingGeneral epidemiology3L,SEpidemiological concepts and epidemiological1,1							
			measurements			-			
	L,S		Special epidemiology			1,4	4		
Course contant	L,S		Hygiene	00000		1,.	<u> </u>		
Course content	L c	Bas	Enidemiological mothods	01832		1			
by weekly class	د ۱ ۲	Δnti-	enidemic measures and proc	edures			1		
schedule (svilabus)	L,3	Fn	idemiology of infectious dise	ases		1	-		
		Routes	of transmission of infectious	s diseases	5	3	1		
	L.S	General measu	ures for protection against in	fectious	diseases	1.	1		
	_,5 S,E	Specific prot	ection measures against infe	ctious dis	seases	1.1	1		
	E	Vaccination	is and calendar of mandatory	/ vaccinat	tions	1			
	S	Law on Pro	ptection of the Population fro	m Infect	ious	1			
		Diseases and R	ulebook on Suppression of H	ospital In	fections				
	L International Sanitary Regulations								

	-									
	L	Epidem	iology of	chronic m	nass	noncommu	nicable	diseases		2,1
	L,S	An ecolo	ogical app	proach in u	unde	rstanding he	ealth ar	id diseas	e	2,1
	L,S,E	The mo	st signific f	ant enviro	onme	ental and wo	ork envi	ironment	t	6,3,1
	15	L S Toxic damage and toxicological protection						า		21
	L,S,E	Assessm	ent of inc	dividual ris	sk fa	ctors in the	environ	ment an	d	3,2,2
	, - ,			protect	ion r	measures			-	- / /
	L,S	Basic le	gal provi	sions relat	ted t	o environm	ental pr	otection		1
				and th	he Fo	ood Act				
	X lectures			ſ	□ in	dependent a	assignm	ents		
	X seminars an	d worksh	ops	[m	ultimedia				
Format of instruction	x exercises									
		□ on line in entirety								
		arning		[(other)				
		ottondand	0							
Student	Active particir	nation in t	.e he teachi	ng proces	s					
responsibilities	Password for	AAI EduH	electron	ic identity	/ to a	access e-lear	rning)
Screening student work (name the	Class attendance	1	Rese	arch			Practica	l training	3	0.5
proportion of ECTS credits for each	Experimental work		Repo	ort						
activity so that the	Essay		Semi	inar essay	0.5		(Other)		
credits is equal to the	Tests		Oral	exam			(Other)		
course)	Written exam	1	Proje	ect			(Other)		
	E	valuation	indicator	'S		Succes	SS	Share i	n ove	erall grade
					,	(point	s)		(%)
	Attendance	and activi	ty on lect	ures and		20			20)
	Writton evan	100% dl	***		40			10)	
	Seminar essa				20				20)
Grading and	Practical trai	ning			20			20)
evaluating student	Total	0			100			100		
work in class and at										
the final exam	PERFORMANCE AND GRADE RATIO									
	Achieved s	uccess		C	Criteria G				Gra	de
	percentag	<u>ge (%)</u>				witewie			(f: _: _	at (2)
	50-69 70-70	,9 0	meets t		um c	riteria		su		nt (2) (2)
	80-89	,9 Q	ahovea		ICCAS	c			<u>γ</u> σο	(3) od (4)
	90-10	, <u>,,,</u> 0	excepti	onal succe	ess	.5		ex	celle	nt (5)
		-					Num	ber of		
Required literature			Title				copies	in the	Ava ot	her media
(available in the								u y		
library and via other	Ropac D., Pun	tarić D. i s	ur. Epider	niologiia z	'araz	nih bolesti.				
	Ropac D., Pun Zagreb: Me	tarić D, i s dicinska i	ur. Epider naklada; 2	niologija z 2010.	zaraz	nih bolesti.				
media)	Ropac D., Pun Zagreb: Me Kolčić I., Vorko	tarić D, i s edicinska i o Jović A.	ur. Epider naklada; 2 (Ur) Epide	niologija z 2010. emiologija	araz a, Zag	greb:				
media)	Ropac D., Pun Zagreb: Me Kolčić I., Vorko Medicinska na	tarić D, i s edicinska i o Jović A. aklada; 20	ur. Epider naklada; 2 (Ur) Epide 12.	niologija z 2010. emiologija	araz a, Zaţ	greb:				
media)	Ropac D., Pun Zagreb: Me Kolčić I., Vorko Medicinska na Puntarić D, M	tarić D, i s edicinska i o Jović A. aklada; 20 iškulin M,	ur. Epider naklada; 2 (Ur) Epide 12. Bošnir J.	niologija z 2010. emiologija Zdravstve	araz a, Zag ena e	greb: kologija.				
media)	Ropac D., Pun Zagreb: Me Kolčić I., Vorko Medicinska na Puntarić D, Mi Zagreb: Medic	tarić D, i s edicinska i o Jović A. aklada; 20 iškulin M, cinska nak	ur. Epider naklada; 2 (Ur) Epido 12. Bošnir J. lada; 201	niologija z 2010. emiologija Zdravstve .1.	a, Zaş ena e	greb: kologija.				
Optional literature (at	Ropac D., Pun Zagreb: Me Kolčić I., Vorko Medicinska na Puntarić D, Mi Zagreb: Medic Jurčev Savičev	tarić D, i s edicinska i o Jović A. aklada; 20 iškulin M, cinska nak	ur. Epider naklada; 2 (Ur) Epide 12. Bošnir J. lada; 201	niologija z 2010. emiologija Zdravstve 1. Fuberkuloz	a, Zaţ ena e za-st	rnih bolesti. greb: kologija. cara dama u	novom	ruhu: Za	ıgreb	: Medicinska

submission of study programme proposal)	Internet and course materials
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE		Sociology of Health							
Code	ZSZ611		Year of study	1.					
Course teacher	Ana Ćurk Assistant	ović, PhD, professor	Credits (ECTS)	TS) 1,5					
Associate teachers	Ana Jelič Assistant	ić, PhD, : professor	Type of instruction (number of hours)	L S 20 12	E	Т			
Status of the course	Mandato	ory	Percentage of application of e-learning	Under 20%		-			
		COURS	E DESCRIPTION						
Course enrolment requirements and entry competences required for the course	No requi	rements.							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - reprodu in medici - conduc phenome - interpre importar - explain - explain society a - recogni workers - underst	npleting the course, uce basic sociological ine, health and healt t, at the individual le- ena and connect the et basic knowledge o nce of interdisciplinar the historical sequer the adopted basic so nd the community, ze the sociological in in society and the co cand basic socio-med	the student will be able to: knowledge for understandir h care, social policies in profe- vel, an elementary analysis of results of analyzes with the r f the principle of justice and rity in the provision of health nee of origin and developmen ociological concepts that deter aportance of health care and mmunity, ical criteria and research me	ng the importance essional health car of observed politica needs of their futu equality in society care, nt of socio-medica ermine the position the position of he thods.	of social e, il and soc re profes and the determi n of man alth care	issues cial ssion, inants, in			
Course content broken down in detail by weekly class schedule (syllabus)	Type of instruct L L L L L/S	De of Luction Subject Number hour L Basic sociological concepts, the concept of sociology, the field of sociology, the scientific view of society 1 L Sociology of health (medical sociology): history, definition, development, area of interest, topics, similarities and differences with other disciplines (social medicine and medical sociology) 2 L Sociological theories of health and disease 1 L Defining health and disease, normal and pathological 2							
	L/S	gender, race a	nd health, the role of culture health and disease atification: health and social	in understanding	2/	2			

	. /0							1/2	
	L/S Quality of life, health improvement, life satisfaction and							1/2	
			heal	th (work	k, leisure)				
	L	elationships	of	1					
		nals							
	L/S		Mental illn	ess, labe	eling and sti	gma		1/2	
	L/S	Soc	ial capital and h	nealth, s	tress and so	cial support		1/2	
	L		Health system	ns and m	nedical profe	essions		1	
	L/S		Alternative	and inte	grative med	dicine		1/2	
	L	L Individual health and community				health		2	
	L		He	alth pro	motion			2	
	🗵 lectures								
	⊠seminars	and work	kshops		uependent a	assignments			
	□ exercises				ultimedia				
Format of instruction	□ on line in	n entiretv		⊔ lat	ooratory				
	□ nartial e-le	arning		□ wo	ork with me	ntor			
	\Box field work	arring			(other)				
	Begular class	attendanc	·0						
Student	Active narticir	ive narticination in the teaching process							
responsibilities	Password for	AAI EduHi	r electronic ider	tity to a	occess e-lear	ning			
Screening student	Class	/ va Eaam							
work (name the	attendance		Research			Practical trai	ning		
proportion of FCTS	Experimental								
credits for each	work		Report						
activity so that the	-					(0)1	``		
total number of ECTS	Essay	Essay S			Seminar essay 0.30		(Other)		
credits is equal to the	Tests		Oral exam			(Othe	r)		
ECTS value of the	Written exam	1.20	Project			(Othe	r)		
	F	valuation	indicators		Succes	ss Sha	ire in o	verall grade	
		valuation	Indicators		(noint	s)	(((((((((((((((((((%)	
	Written exa	n			40	5,		80	
	Seminar essi	av (prese	ntation)		10			20	
	Total	tal			50			00	
Grading and									
evaluating student			PERFORMA		ND GRADE R	RATIO			
work in class and at	Achieved s	uccess		Criter	ia	_	Gr	ade	
the final exam	percentag	ge (%)						Grade	
	60-69	,9	meets the mir	nimum c	riteria	suffic	ient (2)		
					gor	od (3)			
	70-79	,9	average succe	SS			500	verv good (4)	
	70-79 80-89	,9 ,9	average succe above average	ss succes	S		very g	good (4)	
	70-79 80-89 90-10	,9 ,9)0	average succe above average exceptional su	ss e succes iccess	S		very g excel	good (4) lent (5)	
	70-79 80-89 90-10	,9 ,9)0	average succe above average exceptional su	ss e success iccess	S	Number o	very g excel	good (4) lent (5)	
	70-79 80-89 90-10	,9 ,9)0	average succe above average exceptional su Title	ss e succes iccess	S	Number o	very g excel	lent (5)	
	70-79 80-89 90-10	,9 ,9 00	average succe above average exceptional su Title	ss e success iccess	S	Number o copies in th library	very g excel	ood (4) lent (5) vailability via other media	
	70-79 80-89 90-10 Cerjan-Letica	,9 ,9 00 G, Letica	average succe above average exceptional su Title S, Babić-Bosan	ss e success iccess ac S, M	s lastilica M,	Number o copies in th library	very g excel	ood (4) lent (5) vailability via other media	
Required literature	70-79 80-89 90-10 Cerjan-Letica Orešković S	,9 ,9 00 G, Letica S. Medicir	average succe above average exceptional su Title S, Babić-Bosan iska sociologija,	ss e success iccess ac S, M Medicii	s lastilica M, nska knjiga	Number o copies in tl library	very g excel	iood (4) lent (5) vailability via other media	
Required literature (available in the	70-79 80-89 90-10 Cerjan-Letica Orešković S Zagreb, 200	,9 ,9 00 G, Letica S. Medicir 03.	average succe above average exceptional su Title S, Babić-Bosan iska sociologija,	ss success iccess ac S, M Medicii	s lastilica M, nska knjiga	Number o copies in tl library	very g excel	iood (4) lent (5) vailability via other media	
Required literature (available in the library and via other media)	70-79 80-89 90-10 Cerjan-Letica Orešković S Zagreb, 200 Štifanić M, Me	,9 ,9 00 G, Letica S. Medicir 03. edicinska s	average succe above average exceptional su Title S, Babić-Bosan aska sociologija, sociologija, Ada	ss success ac S, M Mediciu mić, Rije	s lastilica M, nska knjiga eka, 2001.	Number o copies in tl library	very g excel	ood (4) lent (5) vailability via other media	
Required literature (available in the library and via other media)	70-79 80-89 90-10 Cerjan-Letica Orešković S Zagreb, 200 Štifanić M, Me (str. 965., 86	,9 ,9 00 G, Letica S. Medicir 03. edicinska s 5108.)	average succe above average exceptional su Title S, Babić-Bosan aska sociologija, sociologija, Ada	ss e success ac S, M Medicin mić, Rije	s lastilica M, nska knjiga eka, 2001.	Number o copies in th library	very g excel	ood (4) lent (5) vailability via other media	
Required literature (available in the library and via other media)	70-79 80-89 90-10 Cerjan-Letica Orešković S Zagreb, 200 Štifanić M, Me (str. 965., 86 Orešković, S. I	<u>,9</u> ,9 00 G, Letica S. Medicir 03. edicinska s i108.) Novi društ	average succe above average exceptional su Title S, Babić-Bosan iska sociologija, sociologija, Ada	ac S, M Medicin mić, Rije	s lastilica M, nska knjiga eka, 2001. a	Number o copies in th library	very <u>g</u> excel	ood (4) lent (5) vailability via other media	
Required literature (available in the library and via other media)	70-79 80-89 90-10 Cerjan-Letica Orešković Zagreb, 200 Štifanić M, Me (str. 965., 86 Orešković, S. I sociologija i zr	,9 ,9 00 G, Letica S. Medicir 03. edicinska 5108.) Novi društ nanost o ž	average succe above average exceptional su Title S, Babić-Bosan Iska sociologija, sociologija, Ada sociologija, Ada	ac S, M Medicin mić, Rije edicinsk	s lastilica M, nska knjiga eka, 2001. a agreb,	Number o copies in tl library	very g excel	ood (4) lent (5) vailability via other media	
Required literature (available in the library and via other media)	70-79 80-89 90-10 Cerjan-Letica Orešković S Zagreb, 200 Štifanić M, Me (str. 965., 86 Orešković, S. I sociologija i zr 1997. (str. 153	<u>,9</u> ,9 00 G, Letica S. Medicir 03. edicinska si108.) Novi društ nanost o ž 3164.)	average succe above average exceptional su Title S, Babić-Bosan aska sociologija, sociologija, Ada sveni ugovor: M ivotu, M.A.K. Go	ac S, M Medicin mić, Rije edicinsk	s lastilica M, nska knjiga eka, 2001. a agreb,	Number o copies in tl library	very g excel	ood (4) lent (5) vailability via other media	
Required literature (available in the library and via other media) Optional literature (at	70-79 80-89 90-10 Cerjan-Letica Orešković S Zagreb, 200 Štifanić M, Me (str. 965., 86 Orešković, S. I sociologija i zr 1997. (str. 153	<u>,9</u> ,9 00 G, Letica S. Medicir 03. edicinska s i108.) Novi društ nanost o ž 3164.)	average succe above average exceptional su Title S, Babić-Bosan aska sociologija, sociologija, Ada sociologija, Ada	ac S, M Medicin mić, Rije edicinsk	s lastilica M, nska knjiga eka, 2001. ra agreb,	Number o copies in th library	very g excel	ood (4) lent (5) vailability via other media	

submission of study programme proposal)	
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation
Other (as the proposer wishes to add)	

_									
NAME OF THE COURSE		Publi	c Health						
Code	ZSZ613			Year of study	1.				
Course teacher	Assoc. P Savicevi	Prof. Ar ic, MD,	namarija Jurcev PhD	Credits (ECTS)	1				
Associate teachers	Full Pro Mulic, N Asst. Pro Tomić, I Asst. Pro Asst. Pro Asst. Pro Šušnjara	fessor MD, Phi of. Iris MD, Phi of. Phi of. Ana of. Ana of. Iva a, MD,	Rosanda D Jerončić ID a Ćurković, MD jka Karin,MD, ina Marasović- PhD	Type of instruction (number of hours)	15	5	E	Т	
Status of the course	Mandat	cory		Percentage of application of e-learning	Up to 20)%			
			COURS	E DESCRIPTION					
Course enrolment requirements and entry competences required for the course	No requ	Jiremei	nts						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - explain econom - identif relate th - describ basic he - state t groups - disting health c - assess - explain health p - deal w - unders - describ and heal	ompleti n the b iy) iy and c he related be the ealth-st the defi the defi the defi the res n the van the p poromot vith hea stand d be the alth	ng the course, t asic concepts in describe risk fac tionship betwee basic indicators catistical indicat inition of health ne types of health sponsibility and alidity of health rinciples of com ion alth documentat lata secrecy and methods of soc	the student will be able to: the field of public health (h tors that affect health in all en them of demographic vital statist ors of health and disease and disease, community he th care institutions and heal competence of health profe care and health insurance umunity intervention and me tion and reports in health ca human rights ial intervention in the field of	ealth, hea groups of ics of the ealth and th activiti essionals ethods of are and pr of social so	alth care s society an Republic o define vul es and the health edu ocedures ecurity, un	ystem, h nd analy of Croati nerable elevel of ucation a with the employ	ealth ze and ia and : and : same ment	
Course content broken down in detail	Type instruc	of tion		Subject			Numb hou	er of Irs	

by weekly class	L	The	role and tasks of p	oublic	c health as p	art of u	nique	2	
schedule (syllabus)			medicine. Hea	alth, l	health stand	lards			
	L	[Disease and the na	tural	course of th	ne disea	se	2	
	L	Fact	ors affecting the h	ealth	of the indiv	ridual ar	nd the	1	
			CC	omm	unity				
	S		Community	demo	ographic hea	alth		1	
	S	The imp	pact of primary so	cial co	ommunities	on the	health o	f 1	
			the	e indi	vidual		,		
	L	Basic si	kills of communica	tion	with the ind	ividual ,	patient	2	
	L	adulthood old age)							
	s		Minority and segregated groups						
		Healt	h behavior and pri	ncinl	es of health	educati	on and	2	
	-	nearc	healt	h pro	omotion	cuucuu	on and	-	
	S	Basics o	of recognizing the s	ocio	-medical nee	eds of v	ulnerabl	e 2	
				grou	ips				
	L		Basic princip	les o	f medical etl	hics		2	
	L	Health v	workers, Health in:	surar	nce, Public a	nd priva	te healt	h 2	
	X lectures				dopondent	accignm	onto		
	X seminars ar	nd worksh	ops			assignin	ents		
Format of instruction	□ exercises				boratory				
i offiat of filstraction	🗆 on line i	n entirety			boratory	ntor			
	partial e-le	□ partial e-learning □ (other)							
	field work for the second se								
Student	Regular class	attendanc	ce .						
responsibilities	Active partici	pation in t	he teaching proce	ss					
·	Password for	AAI EduHi	r electronic identit	y to a	access e-lear	rning			
Screening student	Class	0.5	Research			Practica	l trainin	g	
work (name the	attendance								
credits for each	Experimental		Report						
activity so that the	WOIR					,	o		
total number of ECTS	Essay		Seminar essay	Ý		()	Other)		
credits is equal to the	Tests		Oral exam			(Other)		
ECTS value of the			Ducient				0.4.1		
course)	written exam	0.5	Project			(Uther)		
		Evaluation	indicators		Succes	SS	Share i	n overall grad	le
					(point	s)		(%)	
	Written exa	<u>m</u>			50			50	
	Attendance	and activi	ty on lectures and		50			50	
Crading and	Total	JI 100% at	tenuancej		100			100	_
evaluating student					100			100	
work in class and at			PERFORMAN		ND GRADE F	RATIO			
the final exam	Achieved	success	Criteria	-	-	_		Grade	
	percenta	ge (%)							
	60-69),9	meets the minim	านm ด	criteria		su	fficient (2)	
	70-79),9	average success					good (3)	
	80-89),9	above average s	ucces	SS		ve	ry good (4)	
	90-10	00	exceptional succ	ess			e×	cellent (5)	
						Num	ber of	Availability	via
Required literature			Title			copies	in the	other med	lia
(available in the	-					libı	ary		
library and via other	Puntarić D,	Ropac D,	Jurčev Savičević	A. i	sur. Javno				
media)	zdravstvo.	∠agreb: N	<u>iedicinska nakl</u> ada	<u>; 20</u> 1	.5				

Optional literature (at the time of submission of study programme proposal)	Internet and course materials
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE		Biochemistry					
Code	ZSZ614		Year of study	1			
Course teacher	Full Prof. Hofman,	Irena Drmić PhD	Credits (ECTS)	2			
Associate teachers	Ivana Fra	nić, MSc	Type of instruction (number of hours)	L : 20 1	S E .0	Т	
Status of the course	Essential		Percentage of application of e-learning	Up to 20%		-	
	-	COURS	E DESCRIPTION	-			
Course enrolment requirements and entry competences required for the course	No requir	rements					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon con - define e - distingu - define t body - explain - describe - indicate anabolism - explain - explain - state an cholester - list and LDH, bilir	npletion of the cours electrolyte status ish isotonic solutions he acid-base status a the function of hemo e the action of enzym the biochemical read m of carbohydrates, f the principles of action the biochemical mec of explain the basic ter rol and triglycerides; in describe the principle cubin, albumin, basic	e the student will be able to from hypo- and hypertonic nd recognize the laws of but oglobin and the mechanism of tes and vitamins as precurso ctions in the metabolic path ats, and proteins on of hormones hanism of blood clotting tests for the analysis of metal urea, creatinine and urine) es of the basic tests of liver f coagulation tests)	solutions ffer behavior i of oxygen tran rs of coenzym ways of catab bolic functions	into the hum hsfer hes olism and s (glucose, hotransferase	an e, GGT,	
	Teaching Topic Methods Topic						
Course content	L/S	Acidobase bala	nce		2/	1	
broken down in detail	 L/S	Hemoglobin			2/	1	
by weekly class	L/S	Enzymes and vi	tamins as precursors of coer	nzymes	2/	1	
schedule (syllabus)	, L/S	Metabolic fuels			2/	1	
	L/S	Metabolism of	carbohydrates		2/	1	
	L/S	Metabolism of	fats		2/	2	
	L/S	Metabolism of	proteins		2/	1	

	1 /c	Hormon						2/1	
	L/3	Tosts of	zs basis motobolis fu	un ati a				2/1	
	L liver function tests							1	
	L Liver function tests							I	
	x lectures			🗆 in	dependent a	assignm	ents		
	x seminars and	dworksho	ops	□ m	ultimedia				
Format of instruction	exercises				aratari				
	□ <i>on line</i> in	entirety							
	🗆 partial e-lea	rning			ork with me	ntor			
	□ field work				(other)				
	Regular class a	ttendand	e	1					
Student	Active particip	ation in t	he teaching proce	ess					
responsibilities	Password for A	AI EduHi	r electronic identi	ty to a	iccess e-leai	ning			
Screening student	Class			Ť.					
work (name the	attendance		Research			Practica	al trainin	B	
proportion of ECTS	Experimental								
credits for each	work		Report						
activity so that the	5		C				0.44		
total number of ECTS	Essay	Say Seminar essay				Other)			
credits is equal to the	Tests		Oral exam			(Other)		
ECTS value of the	Written exam	Vritten exam 2 Project				(Other)		
			_				-		
	F	valuation	indicator		Success (p	pints)	Share	in the grade	
	-	- and a choice			00.00000 (p	(%)			
	Written exam	1			30			100	
	Total				30			100	
Grading and						100			
evaluating student			RATIO OF SUC	CESS	AND FVALU	ATION			
work in class and at									
the final exam	Achieved success Criteria			-			Grade		
	percentage (%)								
	60 - 69	,9	meets the minir	num c	riteria		su	fficient (2)	
	70 – 79	,9	average success				good (3)		
	80 - 89	,9	above-average s	rage success very			ry good (4)		
	90 - 10	0	exceptional suc	uccess			ex	excellent (5)	
						Num	ber of		
			Title			copie	s in the	Availability via	
						lib	rary	other media	
	1. Topić E, Prin	norac D, .	Janković S: Medic	al and			-		
Required literature	Biochemical D	iagnostic	s in Clinical Praction	ce. Me	edicinska				
(available in the	naklada, Zagre	b, 2nd ed	lition, 2018.						
library and via other									
meula)	2. Harper's Illu	strated B	iochemistry, Med	licinsk	a naklada,				
	Zagreb, 28 th e	edition La	nge Medical Bool	ks / M	cGraw-Hill,				
	2009. (Croatia	n translat	ion, 2011.)						
Optional literature (at							_		
Optional literature (at the time of	Murphy N	1J, Sriv	astava R, De	ans	K <mark>. Clinic</mark>	al Bic	chem	istry, 6th	
Optional literature (at the time of submission of study	Murphy N Edition	1J, Sriv	astava R, De	ans	K <mark>. Clinic</mark>	al Bic	ochem	istry, 6th	
Optional literature (at the time of submission of study programme proposal)	Murphy N Edition, El	1J, Sriv sevier,	astava R, De , 2018.	ans	K <mark>. Clinic</mark>	al Bic	ochem	istry, 6th	
Optional literature (at the time of submission of study programme proposal)	Murphy N Edition, El	1J, Sriv sevier,	astava R, De , 2018.	ans	K <mark>. Clinic</mark>	al Bic	ochem	istry, 6th	
Optional literature (at the time of submission of study programme proposal) Quality assurance	Murphy N Edition, El	1 J, Sriv sevier,	astava R, De , 2018.	e ans	K. Clinic	al Bic	ochem	istry, 6th	

the acquisition of exit competences	Committee for control of teaching reportsExternal evaluation
Other (as the proposer wishes to add)	

NAME OF THE CO	URSE									
Code	ZSZ615		Year of study		1					
Course teacher	Prof. Ivio	a Aviani, PhD	Credits (ECTS)		2					
Associate teachers	Prof. An Mr. Dari senior le	te Bilušić, PhD jo Radović, dr. med., cturer	Type of instruction (number of hours)	L S 20 5	E	Т				
Status of the course	Compuls	sory	Percentage of application of e-learning	Up	to 20 %					
	<u>I</u>	CO								
Course enrolment requirements and entry competences required for the course	No req	uirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co • inte • app • app • app env • exp • exp • exp • exp	mpletion and passing or rpret and use physical ly basic physical laws t ly basic physical laws t ly basic physical laws t ironment. lain the principles of or lain the physical princi plain the effects of ext	etion and passing of the course, students are expected to be able to: at and use physical quantities and units used in biophysics. asic physical laws to describe the operation of medical devices. asic physical laws to describe the functioning of the human body. asic physical laws to describe the interaction of the human body with the ment. the principles of operation of basic medical devices. the physical principles of basic methods of medical diagnosis. In the effects of external energy sources on the human body.							
	Type of	f	Subject	annan body.	Number of					
	class				hours					
	lecture	 PHYSICAL QUANTI Introduction Fundamental and Units of length, w 	PHYSICAL QUANTITIES AND UNITS - Introduction - Fundamental and derived units of measurement Units of length weight mass times							
Course content	lecture	 LAWS OF MOTION Speed and accele Newton's laws of Inertial forces 	eration motion		2	-				
broken down in detail by weekly class schedule (syllabus)	lecture	 EFFECTS OF GRAVI Center of gravity The law of levera Density, sedimen Influence of weig 	TATIONAL FORCES ON THE HU and equilibrium of the Body ge tation, centrifugation thtlessness and extreme gravity	MAN BODY	2					
	lecture	 WORK, POWER, EN Work, power, end Types and transfe conservation laws 	NERGY ergy prmations of energy: application	on of	1					
	lecture	PRESSURE IN THE Pressure: atmosp - Effect of extreme	ws HE HUMAN BODY ospheric, hydrostatic, hydraulic, osmotic eme pressures, decompression							

		- Measurements of body pre	essure	
		- Arterial and venous blood	pressure	
		- Eye pressure and intracran	ial pressure	
	lecture	FLUID MECHANICS		
		- Surface tension and capilla	ry effects	2
		- Fluid flow, viscosity, Berno	ulli effect	2
		- Cardiovascular system		
	lecture	HEAT AND TEMPERATURE		
		- Heat: nature, measuremen	t, specific heat	
		- Temperature scales		
		- Heat Transfer: Thermal cor	nductors and insulators	2
		- States of matter		
		- Evaporation, boiling, relativ	ve humidity	
		- Maintenance and regulatio	on of body temperature	
	lecture	SOUND AND HEARING		
		- Appearance of sound: sour	ces and receivers	
		- Description of Sound Wave	es: Frequency, intensity, and speed	1,5
		- Hearing threshold, noise, p	rotection	
		- Use of ultrasound		
	lecture	LIGHT AND SEEING		-
		- Laws of propagation of ligh	t	
		- Elements of the eye, vision	correction, use of lenses	1,5
		- Biological effects of light		
		- Use of light in diagnosis an	d therapy	
	lecture	ELECTRICITY AND MAGNETIS	SM	
		- Voltage, current, resistance	2	
		- Electric current in solids, el	ectrolytes, gasses and in vacuum	
		- Electrical properties of cells	s and tissues	
		- Membrane potentials, con	ductivity of nerves	2
		- Electricity and the human b	body	
		- Rhythm generator and defi	brillation	
		- EKG, EEG, EMG, EKT	-	
		- magnetotherapy		
	lecture	ELECTROMAGNETIC RADIAT	ION	
		- Electromagnetic waves		
		- Atomic structure and elect	ronic transitions	1
		- Electromagnetic radiation	spectrum	_
		- Ionizing and non-ionizing ra	adiation	
		- The effect of radiation on t	he human body	
	lecture	NUCLEAR DIAGNOSTICS AND	D THERAPY	
		- Structure of atoms and isot	topes	
		- MRI		
		- Atomic energy, radioactivit	Υ 	2
		- Use of radioactive isotopes	in medicine, PET	
		- radiation, unit and dose pro	otection	
		- X-rays, CT		
	seminar	Biophysical basics of haemo	rheology (pressures and volumes	1
		of blood in the vascular syste	em)	
	seminar	Biophysical basics of the phy	vsiology of seeing and hearing	1
	seminar	Electromagnetic radiation in	medicine and radiation protection	2
	seminar	Biophysical basics of diagnos	stic methods	1
	M loctures		Independent assignments	
Format of				
Format of	seminar	s and workshops		
instruction	⊔ exercise	S		
	🛛 🗆 on lin	e in entirety	└└ work with mentor	

	☑ partial e □ field wo	-learning rk		□ (other)							
Student responsibilities	Regular cla Active part Password f	ss attendance icipation in the te or AAI EduHr elec	eaching proce	ess ity to access e-learr	ling						
Screening student work	Class attendance	0.4	Research		Practical training	5					
(name the proportion of	Experimen [®] work	tal	Report								
ECTS credits for each activity so	Essay		Seminar essay		(Other)						
that the total number of ECTS	Tests		Oral exam		(Other)						
credits is equal to the ECTS value of the course)	Written exa	am 1,6	Project		(Other)						
		The final g	rade will cor	nstitute of	Percentage of grad	de (%)					
		Attendance a	nd activity in	lectures and	20						
		V	seminars Vritten exam		80						
Cue dia a su d			Total		100						
Grading and evaluating											
student work in	SUCCESS AND ASSESSMENT RELATIONSHIP										
class and at the		Percentage of g	scription of criteria	Grade							
		achieved (%			(2)						
		60 – 69.9 70 – 79 9	me	et minimum criteria	sufficient	good (3)					
		80 - 89.9	abo	ove average success	s very good	(4)					
		90 - 100	e	xceptional sucess	excelent	excelent (5)					
Required			Title		Number of copies in the library	Availa othe	bility via r media				
literature	Materials	and presentation	is from lect	ures and seminars	<i>,</i>						
(available in the library and via	Merlin, SRC Paul Davide	LE, 2021. <u>https://</u> ovits_Physics in B	moodle.srce	<u>.hr/2021-2022/</u> 1edicine 3rd ed							
other media)	Academic F	Press, New York 2	019.								
	I. Aviani an Care. Unive	d A.Bilušić, Funda ersity of Split, und	amentals of E ler construct	Biophysics in Health ion							
Optional literature (at the	B. Middleto	on, J. Phillips, R. T	homas, S. St	acey, Physics in Ana	aesthesia, Oxfords	hire, Uni	ted				
time of submission of	Kingdom, S	cion Publishing L	td.,2012.								
study											
programme											
Quality	 Teachi 	ng quality analysi	s by student	s and teachers							
assurance	 Example 	passing rate analy	rsis								
methods that	 Comm 	ittee for control o	of teaching re	eports							
clisure the	I - Eutralia	 External evaluation 									
acquisition of	 Extern 	al evaluation									
acquisition of exit	 Extern 	al evaluation									

NAME OF THE COURSE	SE Anatomy									
Code	ZSZ616			Year of stu	ldv	1.				
Course teacher	Prof. Ivic	a Grkov	ić, MD PhD	Credits (EC	CTS)	3				
Associate teachers	Prof. Ana Prof. Kat PhD Prof. Kat PhD Associate bases	a Maruši carina Vil carina Vu es from	ć, MD PhD lović, MD Ikojević, M teaching	D Type of ins (number o	struction f hours)	L 26	S 20	E 20	Т	
Status of the course	Mandato	ory		Percentage	e of application	0%				
Course enrolment requirements and entry competences required for the course	No requi	irements	5							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Knowled - describ - analyse - demon systems - recogn human k study), a	inowledge, to be able to: describe basic anatomy and structure of organs and organ systems analyse the structure of the human body and interpret the vital functions demonstrate the application of general anatomical principles and concepts to organs/organ ystems recognize the importance of continuous revision of knowledge on the structure of the numan body for the comprehension of teaching units in clinical medicine (in later years of tudy), as well as throughout their professional life.								
Course content broken down in detail by weekly class schedule (syllabus)	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	1. Introduction and osteology 1 and 2 2. Joints 1 and 2 3. Muscular systems 1 and 2 4. Cardiovascular system 5. Digestive system 6. Respiratory system 7. Urinary system 8. Reproductive system 9. Nervous system 10. Sensory system								
Format of instruction	 ☑ lectures ☑ seminars and workshops ☑ multimedia □ laboratory □ on line in entirety □ partial e-learning □ field work 					t assignments nentor r)				
Student responsibilities	Regular Active pa Passwor	class atte articipat d for AA	endance ion in the t I EduHr ele	eaching proce ctronic identit	ss y to access e-lea	arning				
Screening student work (name the proportion of ECTS	Class attendar Experime	nce ental		Research Report		Practical	training			
activity so that the	WORK Essav			Seminar essa	/	10	ther)			
total number of ECTS credits is equal to the	Tests		3	Oral exam	/	() ()	ther)	_		
ECTS value of the course)	Written	exam	,	Project		(0	ther)			

	Evaluation	indicators	Succes	S	Share i	n overall grade		
			(points	5)		(%)		
	Written exam		50		50			
	Total		50			100		
Grading and evaluating student		PERFORMANCE AI	ND GRADE R	ATIO				
work in class and at	Achieved success	Criteria				Grade		
the final exam	percentage (%)							
	60-69,9	meets the minimum of	criteria		su	fficient (2)		
	70-79,9	average success				good (3)		
	80-89,9	above average succes	S		ve	ry good (4)		
	90-100	exceptional success			excellent (5)			
Required literature	Numb Title copies libr					Availability via other media		
library and via other media)	Bajek, S; Bobinac, D; Jerković, R; Malnar, D. Sustavna anatomija čovjeka. Digital point tiskara. Rijeka, 2007.							
	Netter, F.H.: Atlas of Hu Systems; 3rd Bk&Cdr ed							
Optional literature (at the time of submission of study programme proposal)	Sobotta: Atlas anatomij Bobinac D., Dujmović N	Sobotta: Atlas anatomije čovjeka, Svezak 1 & 2, Naklada Slap, 2000 Bobinac D., Dujmović M.: Osnove anatomije, Glosa. Rijeka, 2003.						
Quality assurance methods that ensure the acquisition of exit competences	Regularity of attending classes: - lectures - at least 80% of all classes attended, - seminars 90% and exercises 100%, - active participation in classes. 							
Other (as the proposer wishes to add)								

NAME OF THE COURS	E	Physiology									
Code	ZSZ617		Year of stu	Jdy	1.						
Course teacher	Assoc. A	nte Obad, PhD, MD	Credits (E	CTS)	3						
	Prof. Maja	a Valić, PhD, MD				S	E	Т			
Associate teachers	Prof. Zora	n Valić, PhD, MD	Type of in: (number o	struction of hours)	30	7	10				
Status of the course	Mandate	ory	Percentag of e-learni	e of application	Up to 20%						
	I	COURS	E DESCRIPT	ΓΙΟΝ							
Course enrolment requirements and entry competences required for the course	No requ	No requirements									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After con - Describ as a wh - Define hemate and ne - Explain human - Interpr - Explain values.	The completing the course, students will be able to: Describe main physiological processes at the cellular level, organsystems and organism as a whole Define normal functions of all organ systems of the human body: cardiovascular, hematopoietic, musculoskeletal, respiratory, digestive, uropoietic, immune, endocrine and nervous systems Explain and understand the interrelationships between individualorgan systems in the human body Interpret general response patterns of an organism Explain the basic principles of functional tests and identify deviations from normal values.									
	Туре		-	ГНЕМЕ			Ηοι	ırs			
	Р	2									
	Р	Muscle	3								
	P	Neuroscience									
	Р			Heart			4				
	Р	Hum	an arterial	and venous system	m		3				
	Р		ķ	Kidneys			3				
Course content	Р	Ery	ythrocytes	and blood groups			3				
broken down in detail by weekly	P		Re	spiration			3				
	Р Р	General pr	inciples of	gastrointestinal fu	unction		3				
(syllabus)	Р S			it volume control			3				
	S	Tissue control	of blood flo	ow. regulation of	circulatio	n	2				
	S	He	emostasis a	nd blood clotting			1				
	S		Blood pres	sure regulation			2				
	E		Pressure i	measurement			3				
	E	ECG	recording	and interpretation	n		3				
	E		Sp	irometry			1				
	E	U	Itrasound in	n clinical practice			3				
Format of instruction	 ☑ lecture ☑ semina ☑ exercis □ or □ partia □ field v 	es ars and workshops ses a <i>line</i> in entirety Il e-learning work	 independent assignments multimedia laboratory work with mentor (other) 								

Student responsibilities	Regular class atte Active participati	endance on in th	e e teaching process								
	Password for AAI	EduHr	electronic identity to a	access e-learn	ning						
Screening student	Class attendance	1,5	Research	1	Practical training						
proportion of ECTS	Experimental work		Report								
activity so that the	Essay		Seminar essay			(Other)					
credits is equal to the	Tests		Oral exam			(Other)					
ECTS value of the course)	Written exam	1,5	Project			(Other)					
	Eval	uation i	ndicators	Succes	s	Share in	n overall grade				
				(points)		(%)				
	Written exam						50				
Grading and	Total 100						100				
evaluating student											
the final exam		RATIO OF SUCCESS AND EVALUATION									
	Achieved suc	cess (%)	Criteria				Grade				
	60-69,9	V: 7	meets minimum crite	eria		su	fficient (2)				
	70-79,9		average success			1	good (3)				
	80-99,9		above average succe	ss		ver	y good (4)				
	90-100		outstanding success		-	ex	cellent (5)				
					Num	ber of	Availability via				
Required literature		Title					other media				
(available in the					the l	ibrary					
library and via other	Guyton AC, Hall	JE. Me	dical Physiology. 11.	ed.Zagreb:							
media)	Medicinska n	aklada;	2006.								
Optional literature					_						
(at the time of	Materials distrib	uted to	students during lectu	res and exerc	cises.						
submission of study											
programme proposal)											
Quality assurance	Regularity o	f atten	ding classes:								
methods that	1. lectu	ires - at	least 80% of all classe	s attended,							
ensure the	2. semi	inars 90	% and exercises 100%	,							
acquisition of exit competences	3. activ	e partio	ipation in classes.								
Other (as the											
proposer wishes to											
1.13											

NAME OF THE COURSE	Ξ	Biology	,							
Code	ZSZ618			Year of stu	ıdv		1.			
Course teacher	Sendi Ku Assistan	ret, PhD t Profess), sor	Credits (EC	CTS)		2			
Associate teachers				Type of ins	struct	tion urs)	L	S	E	Т
Status of the course	Mandato	ory		Percentag	e of a	application	20 Up to 1	10 0%		
				of e-learni	ng					
Course enrolment requirements and entry competences required for the course	No requi	irement	5	RSE DESCRIPT	ION					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After pa: - - - - -	 describe the structure of a eukaryotic cell and compare it with the structure of a prokaryotic cell, define and describe cell compartments and join them into a functional entirety, analyze and describe individual phases of the cell cycle and cell division, explain cell renewal, aging and cell death, explain the basic principles of genetics and solve simple tasks in this area. 								
Course content broken down in detail by weekly class schedule (syllabus)	- explain the basic principles of genetics and solve simp L/S Cell structure and function. Prokaryotes vs Euka chemistry. Macromolecules. L/S L/S Deoxyribonucleic acid – DNA. L/S Ribonucleic acid - RNA. Transcription L/S The nucleus. DNA-RNA-Proteins. Translat e content L/S L/S Cell membrane-structure and transport eekly class L/S lule (syllabus) L/S L/S Cytoskeleton and cell movement. L/S Cell cycle. Fertilization. L/S Basic principles of medical genetics. L/S Cell death and cell renewal.						Eukaryot A. Dition. Inslation. Insport. m. ent. etics.	es. Cell		
Format of instruction	 ☑ lectur ☑ semin □ exerci □ on ☑ partia □ field v 	es lars and lises <i>line</i> in e l e-learr vork	workshops ntirety iing		□ in □ m □ la □ w □	dependent aultimedia boratory ork with mo (other	dent assignments dia ry h mentor ther)			
Student responsibilities	Regular Active pa Passwor	class att articipat d for AA	endance ion in the t I EduHr ele	eaching proce ctronic identi	ess ty to a	access e-lea	arning			
Screening student work (name the proportion of ECTS	Class attendar Experim	nce ental	0.4	Research			Practical	training		
credits for each	work									
activity so that the total number of ECTS	Essay			Seminar essa	y 0,4	10	(C	ther)		
credits is equal to the ECTS value of the	Tests			Oral exam	\perp	(Other)				
course)	Written	exam	1,20	Project			(C	ther)		
Grading and evaluating student		Eva	luation indi	cators		Succe (poin	ess ts)	Share in	overall gi (%)	rade

work in class and at the final exam	Attenda	ance and activity on lect	ures and	20			20		
	Writter	n exam		80			80		
	Total			100	100				
		SUCCESS	MENT RELAT	IONSHII	P				
		Percentage of grade achieved (%) Description of d				Grade			
		60 – 69.9	met minim	um criteria	SI	ufficien	t (2)		
		70 – 79.9	average success			good (3)		
		80 - 89.9	above average success		Ve	ery goo	d (4)		
		90 - 100 exceptional sucess				excelent	t (5)		
Required literature (available in the			Numb copies i libra	er of in the ary	Availab other	ility via media			
library and via other media)	Cooper GM, Hausman RE. The Cell, a Molecular Approach. 8th ed. Washington DC, Sunderland (Massachusetts): ASM Press, Sinauer Associates; 2019.								
Optional literature (at the time of submission of study programme proposal)	Cox TM, (selected	Sinclair J. Molecular bio l chapters).	logy in medici	ne. Blackwe	ll Scienc	ce, 1997	7. Oxford,	UK	
Quality assurance methods that ensure the acquisition of exit competences	 Tead Exar Com Exter 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 							
Other (as the proposer wishes to add)		\square							

NAME OF THE COURSE	Ξ	Embrio	ology and	Histology						
Code	ZSZ619			Year of stu	ıdy	1.				
Course teacher	Snježana Full prof	a Mardes essor	śić	Credits (E0	CTS)	2.				
Associate teachers	Associat	es in tea	ching base	s Type of in: (number of	struction of hours)	L 20	S	E	Т	
Status of the course	Mandato	ory		Percentag	e of application	20 Up to 20	10)%			
			COU	RSE DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requi	irements	5							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After col - - - - -	 describe basic tissues of the human body explain the basic principles of histological structure of organ systems and basic histological techniques identify tissues in histological sections describe the structure and function of reproductive cells, reproductive glands and fertilisation explain the process of implantation and stages of development of the fetus till birth describe mechanisms of occurrence of congenital anomalies. 								
Course content broken down in detail by weekly class schedule (syllabus)	L L, S L, S L, S L, S L, S L, S L, S L,	- describe mechanisms of occurrence of congenital anomalies. L Reproductive cells, menstrual cycle and fertilisation L Implantation, embryonic and fetal period, placenta L, S Congenital anomalies L, S Histological techniques L, S Epithelial and connective tissue L, S Cartilage and bone tissue L, S Muscle tissue L, S Circulatory and immune system L, S Basic structure of the digestive system L, S Endocrine system L, S Endocrine system L, S Urinary tract							1 1 1 1 1 1 1 1 1 1 2 1 1	
Format of instruction	X lectures Independent as: X seminars and workshops Independent as: Image: exercises Image: exercises Image: on line in entirety Image: exercises X partial e-learning Image: exercises Image: field work Image: exercises					: assignments entor r)				
Student responsibilities	Regular Active pa Passwor	class atte articipat d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identi	ss. ty for access to e	- learning	ξ.			
Screening student work (name the proportion of ECTS	Class attendar Experim	idance Research				Practical	training			
credits for each	work			Report						

activity so that the	Essay		Seminar essay		(Other)		
credits is equal to the	Tests		Oral exam		(Other)		
ECTS value of the course)	Written exam	2	Project		(Other)		
	Eva	uation ir	ndicators	Succe	2SS	Share i	n overall grade	
	Written exam			(poin 30	ts)		(%)	
	Total			30		100		
Grading and evaluating student			RATIO					
work in class and at the final exam	Achieved suc	cess	Criteria				Grade	
	60-69,9	(, -)	meets the minimu	m criteria		su	fficient (2)	
	70-79,9		average success			~	good (3)	
	80-89,9		above average suc	cess		ver	ry good (4)	
	90-100		exceptional succes	SS		ex	cellent (5)	
			Title		Num copies lib	ber of 5 in the rary	Availability via other media	
(available in the library and via other media)	 Mirna Saraga-Babić, Livia Puljak, Snježana Mardešić, Sandra Kostić, Damir Sapunar. Embriologija i histologija čovjeka (za studente preddiplomskih sveučilišnih zdravstvenih studija). Split, 2014. Nakladnik: Sveučilište u Splitu. Dostupno na: <u>https://www.webknjizara.hr/knjige/medicina/embriol</u> 							
Optional literature (at the time of submission of study programme proposal)	1. Sapunar D, Sa Splitu. Dostupno 2. Lecture abstra	raga Bab na: <u>http</u> cts	ić M. Histološki atl :://genom.mefst.h	as – CD izdanj r <u>/HistologyAtl</u> a	e. Split: I as/index	Medicins <u>.htm</u>	ki fakultet u	
Quality assurance	 Teaching qu 	ality ana	lysis by students a	nd teachers				
methods that ensure	 Exam passin 	g rate an	nalysis					
the acquisition of exit	 Committee Extornal ova 	for control	ol of teaching repo	orts				
Other (as the proposer wishes to add)	- External eva	luation						

NAME OF THE COURSE	E Basics of Nursing Care									
Code	ZSZ620		Year of stu	ıdy	1.	1.				
Course teacher	Prof. Juli PhD	Ilije Meštrović, MD, Credits (ECTS)								
	Diana Ar	anza, master of	Type of in:	struction	L	S	Е	Т		
Associate teachers	Nursing		(number c	of hours)	15	4				
Status of the course	Mandato	ory	Percentag of e-learni	e of application ng	up to 20	%				
		COURS	E DESCRIPT	ION						
Course enrolment requirements and entry competences required for the course	No requ	o requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	1. To exp 2. To exp 3. To des 4. To car 5. To me interven 6. To ass interven 7. To app 8. Planni elderly p 9. Condu 10. To pp	blain the nature, chara blain health care relat scribe the admission, rry out a suitable disin easure vital signs, noti tions; sess bodily excretions, tions; ply enteral and parent ing and implementing batient, and a dying pa ucting a physical exam roperly write and prov	acteristics a ed to meeti transfer and fection and ce deviation , identify de teral therap g care for a p atient; nination of t cess nursing	nd principles of h ng basic human r d discharge of the sterilization proc ns from normal va viations and diffic y; patient with cogn he patient g documentation	ealth car needs; e patient; cedure; alues and culties an itive-perc	e; to take a d apply a ceptual d	appropria appropria ifficulties	ate ite ;, an		
	Teachi metho	ing ids		Topic			Nur st	nber of udent iours		
	L1	Vital signs in ch	ildren					2		
	L2	Features and p Admission, tran health institution	rinciples of nsfer and di on.	health care scharge of the pa	tient fror	n the		2		
Course content	L3	Basic human ne	eeds.					2		
broken down in detail	L4	General infection	on preventi	on procedures.				2		
schedule (syllabus)	L5	Vital signs.						3		
	L6	Body excretion	S.					2		
	L/ S1_/	Application of C	urugs. Maintain s	kin integrity Nur	sing care	for		2 /		
	51 4	elderly. Nursing documentation patients.	ognitive-pe g care for dy n. Providing	rceptual difficultion ying patients. Nur nursing care for s	es. Nursir sing specific gi	ng care fo	or	-		
Format of instruction	X lecture X semina exerci con Xpartial field v	es ars and workshops ises <i>line</i> in entirety e-learning work		X independent a I multimedia I laboratory Work with me (other)	ssignmer	ıts				
Student responsibilities	Regular Active pa Passwor	class attendance articipation in the tea d for AAI EduHr electr	ching proce ronic identii	ss ty to access e-lear	rning					

Screening student work (name the	Class attendance		Research			Practica	al training	
proportion of ECTS credits for each	Experimental work		Report					
activity so that the total number of ECTS	Essay		Seminar essay	0,3	3	(Other)	
credits is equal to the	Tests		Oral exam			(Other)		
course)	Written exam	0,67	Project			(Other)	
	Eva	luation ii	ndicators		Succe (poin	ess ts)	Share in	overall grade (%)
	Written exam				40	,		66,67
	Seminar essay	(present	ation)		20			33,33
	Total		•		60			100
Grading and evaluating student								
work in class and at			PERFORMANC	e ai	ND GRADE	RATIO		<u> </u>
the final exam	Achieved such percentage	cess (%)	Criteria					Grade
	60-69,9		meets the minimu	um c	criteria		suff	ficient (2)
	70-79,9		average success				g	ood (3)
	80-89,9		above average suc	cces	s	very good (4)		/ good (4)
			exceptional success					
	90-100		exceptional succe	SS			exc	ellent (5)
Required literature	90-100		exceptional succe	SS		Num copies libi	exc ber of s in the rary	ellent (5) Availability via other media
Required literature (available in the library and via other	90-100 1. Čukljek S. Basi Health Sciences,	cs of Nu Zagreb,	exceptional succe Title rsing care. Univers 2005.	ss	of Applied	Num copies lib	exc ber of s in the rary	ellent (5) Availability via other media
Required literature (available in the library and via other media)	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V.	cs of Nu Zagreb, Basic Pr	exceptional succe Title rsing care. Univers 2005. inciples of Nursing	ss sity g Ca	of Applied re. HUSE	Num copies lib	exc ber of s in the rary	ellent (5) Availability via other media
Required literature (available in the library and via other media)	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagro	cs of Nu Zagreb, Basic Pr eb 1994.	exceptional succe Title rsing care. Univers 2005. inciples of Nursing	ss sity g Ca	of Applied re. HUSE	Num copies lib	exc ber of s in the rary	ellent (5) Availability via other media
Required literature (available in the library and via other media)	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagri 3. Aranza D. Tea	cs of Nu Zagreb, Basic Pr eb 1994. ching ma	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials.	ss sity g Ca	of Applied re. HUSE	Num copies lib	exc ber of s in the rary	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagru 3. Aranza D. Tear 1. Fučkar, G. Pro	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Scho	sity g Ca ol o	of Applied re. HUSE f Medicine	Num copies lib	exc ber of s in the rary	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagra 3. Aranza D. Teat 1. Fučkar, G. Pro Zagreb, 1992 (se	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Schoo oters).	sity g Ca ol o	of Applied re. HUSE f Medicine	Num copies libs of the U	exc ber of s in the rary niversity o	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagro 3. Aranza D. Teat 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Dia	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Iursing Care. Schoo bters). gnoses. HUSE. Zag	ss sity g Ca ol o reb	of Applied re. HUSE f Medicine 1992 (selec	Num copies libe of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagri 3. Aranza D. Teai 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur Teaching qu	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Diap ality ana	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Schoo oters). gnoses. HUSE. Zag	sity g Ca ol o reb	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies libu of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagro 3. Aranza D. Tead 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur • Teaching qu • Exam passin	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Dia ality ana g rate ar	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Schoo bters). gnoses. HUSE. Zag lysis by students a nalysis	sity g Ca ol o reb	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies libu of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagre 3. Aranza D. Tea 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur Teaching qu Exam passin Committee	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Dia ality ana g rate ar for contr	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Scho- bters). gnoses. HUSE. Zag lysis by students a halysis ol of teaching rep.	ss sity g Ca ol o reb and	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies lib of the U	exc ber of s in the rary niversity o ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagri 3. Aranza D. Teac 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur • Teaching qu • Exam passin • Committee for the set of the set	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Diap ality ana g rate ar for contr luation	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Schoo oters). gnoses. HUSE. Zag lysis by students a halysis ol of teaching repo	ss sity of g Ca ol o reb and	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies libu of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagre 3. Aranza D. Tea 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur • Teaching qu • Exam passin • Committee f • External eva	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Dia ality ana g rate ar for contr luation	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Scho- bters). gnoses. HUSE. Zag lysis by students a halysis ol of teaching repu	ss sity g Ca ol o reb and	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies libu of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagri 3. Aranza D. Teac 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur • Teaching qu • Exam passin • Committee fi • External eva	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Diap ality ana g rate ar for contr luation	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Jursing Care. Schoo oters). gnoses. HUSE. Zag lysis by students a halysis ol of teaching repo	ss sity g Ca ol o reb and	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies libu of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to add)	90-100 1. Čukljek S. Basi Health Sciences, 2. Henderson, V. and HUMS, Zagro 3. Aranza D. Tead 1. Fučkar, G. Pro Zagreb, 1992 (se 2. Fučkar, G. Nur • Teaching qu • Exam passin • Committee for • External eva	cs of Nu Zagreb, Basic Pr eb 1994. ching ma cess of N lect chap rsing Dia ality ana g rate an for contr luation	exceptional succe Title rsing care. Univers 2005. inciples of Nursing aterials. Iursing Care. Schoo oters). gnoses. HUSE. Zag lysis by students a nalysis ol of teaching repo	ss sity g Ca ol o reb orts	of Applied re. HUSE f Medicine 1992 (selec teachers	Num copies libu of the U	exc ber of s in the rary niversity of ers)	ellent (5) Availability via other media of Zagreb.

NAME OF THE COURSE		Introduction to La	Laboratory Medicine					
Code	ZSL601		Year of stu	ıdy	1.			
Course teacher	ZSL601Year of study1.Daniela Šupe-Domić, PhD, Assistant professorCredits (ECTS)4.							
Associate teachers	Esma Čec Assistant Zlatka Kr Assistant Sendi Ku professo Vesela To Assistant Vanja Ka Assistant Irena Drr Full profe Davorka Full profe	čuk Jeličić, PhD, : professor nezović, PhD, : professor ret, PhD, Assistant r orlak Lovrić, PhD, : professor literna, PhD, : professor mić Hofman, PhD, essor with tenure Sutlović, PhD, essor with tenure	Type of in (number c	struction of hours)	L 15	S 15	E 50	Т
Status of the course	Mandato	bry	Till 10%					
			of e-learni	ing	<u> </u>			
Course enrolment requirements and entry competences required for the course Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	To explai and appl understa of medic	in development of me ication of new diagno and the organization of al laboratory technolo mpleting the course st - Explain the course - Explain the proce - Describe organ laboratories wor - Describe collecti - Describe and per - Explain the impo - Implement app collecting and pr - Manage and kee	edical labor ostics. Acqu of work in la ogists. tudent will se of develo esses and p ization of king with b on and ana rform blood ortance of u propriate of cocessing th	atory diagnostics ired knowledge sl aboratory medicir be able to: opment of medica rinciples of medica work and im iological material lysis of samples, d sampling, sing an appropria disinfection and e samples, f the processed s	with a fo hould ena he and du al laborat cal laborat plementa , nte antico steriliza amples.	ocus on da able stud aties and ory diagr tory diag tion of agulant/ ation pr	evelopmo ents to responsil nostics, gnostics, protect tube ocedure	ent bilities ion in when
Course content broken down in detail by weekly class schedule (syllabus)	L,S L,S,E L,S,E L,S,E L,S,E L,S,E L,S,E	- Manage and keep records of the processed samples. Development of medical laboratory diagnostics Organization of work in the field of medical laboratory diagnostics Biological materials, origin (blood, urine, faeces, sweat, saliva, cerebrospinal fluid, synovial fluid, tissue, hair) Sampling and protection measures Equipment and quality control procedures Equipment and standard procedures for blood sampling Sample preparation for analysis, transport and storage of samples Preanalytical errors						2 2 10 ,2 ,5 10 13 10
Format of instruction	x lecture x semina x exercis D on x partial field w	s rs and workshops es <i>line</i> in entirety e-learning vork		 independent multimedia x laboratory work with me (other) 	assignme entor	ents		

Student responsibilities	Regular class att Active participat Password for AA	egular class attendance ctive participation in the teaching process assword for AAI EduHr electronic identity to access e-learning								
Screening student work (name the	Class attendance	0,4	Research		Practical training	g 0,5				
proportion of ECTS credits for each	Experimental work		Report							
activity so that the total number of FCTS	Essay		Seminar essay	0,5	(Other)					
credits is equal to the	Tests	1,2	Oral exam		(Other)					
ECIS value of the course)	Written exam	2,4	Project		(Other)					
Grading and evaluating student work in class and at the final exam	Written exam									
			Title		Number of copies in the library	Availability via other media				
	C.A. Burtis, E.R. of Clinical Cl izdanje. St. L poglavlja	Aschwood, nemistry a uis: Elsevi	, D.E. Burns, ur. and molecular I er Saunders, 20	Tietz Textbook Diagnostics. 8. D18, odabrana						
Required literature (available in the library and via other	E. Topić, D. Prim Medicinskobioke dopunjeno i izmi Zagreb, 2018.	orac, S. Jar emijska dija jenjeno izo	nković, M. Stefar agnostika u klini danje, Medicinsk	nović i sur. čkoj praksi, 2. ta naklada,						
media)	J. Sertić i sur. Klij kliničkoj praksi, 2 Medicinska nakla	nička kemi 2. dopunje ada, Zagre	ja i molekularna no i izmijenjeno b, 2015.	dijagnostika u izdanje,						
	D. Čvorišćec, I. Č Medicinska nakla	epelak Štra ada, Zagrel	ausova Medicins b, 2009.	ka biokemija,						
	A. Stavljenić Ruk upravljanje u me trajno usavršava biokemičara, Me	avina, D. Č dicinskom nje Hrvats dicinska n	voriščec Organiz laboratoriju Pri ke komore medi aklada Zagreb, 2	zacija i ručnik za cinskih 004						
Optional literature (at the time of submission of study programme proposal)	W.G. Guder, S. N the Laboratory: 4th, Updated Ed	larayanan, The Impact ition, Git V	H. Wisser, B. Za t of Preanalytica werlag GMBH, 2	wta Diagnostic I Variables on t 2009.	c Samples: From the Quality of Lab	the Patient to poratory Results,				
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qu Exam passin Committee External eva 	ality analy g rate ana for control luation	sis by students a lysis of teaching rep	nd teachers orts						
Other (as the proposer wishes to add)										

NAME OF THE COURSE	E	Mathematics								
Code	ZSL602		Year of study	1						
Course teacher	Antonel Assistan	a Matana, PhD, t Professor	Credits (ECTS)	4						
Associate teachers	-		Type of instruction	L	S	E	Т			
			(number of hours)	20	20 12 20 10%					
Status of the course	Essentia	l	Percentage of application of e-learning	10%						
	-	COURS	E DESCRIPTION							
Course enrolment requirements and entry competences required for the course	No requ	o requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - Explair - Develo - Apply complet - Develo - Apply a - Explair of statis - Use tal - Use the of their	mpleting the course so the application of m op accuracy in express the acquired knowled sing professional cour- op a satisfactory techr acquired skills in profe- n summing up a large tical series, bular and graphical di e processes of statistic variables based on th	itudent will be able to: athematics in laboratory diag ing mathematical facts, edge and skills in mathem ses, iical level of calculus skills, essional and scientific work, amount of data on the statis splay and analyze data using cal inference for the entire st e mathematical theory of ran	gnostics, natics and stical pop relative r atistical p ndom eve	d statisti ulation u numbers populatio nts and p	cs requir nits in th and varia n on the a processes	e form bles ground			
	Forma	at of	Teaching unit			Class	Hour			
	instruc L,S,	ction E Basics of	mathematical logic and Set 1	heory, se	4					
	L,S,	E Real function	ns of one variable, property.	Basic eler	mentary	4				
	L,S,	,E	Differential calculus.			4				
	L,S,	,E ·	Testing elementary real func	tions.		4				
	L,S,	E Introdu	ction. Variables and measure Histogram and distributio	ement sca n.	les.	4				
	L,S,	E Popu	llation, sample, statistical sig	nificance		4				
	L,S,	,E N	ledians and measures of vari	ability.		4				
Course content	L,S,	,E Co	rrelation between ordinal va	riables.		4				
broken down in detail	L,S,	,E Con	fidence limits of the arithme	tic mean.		4				
by weekly class schedule (syllabus)	L,S,	E Comparison	between experimental arith standard value.	imetic me	ean and	4				
	L,S,	E Compariso	n of samples whose property interval or ratio scale.	is measu	red on	4				
	L,S,	,E	Distribution of errors.			4				
	L,S,	,E St	atistics of repeated measure	ments.		4				
	L,S,	E Comparison	of samples whose property nominal scale.	is measur	ed on a	4				
	L,S,	E F-test for	comparison of standard dev unusually large deviation	iations, te s.	ns, testing					
	L,S,	E Statistical a	nalysis of the results of biolo tests.	gical assa	iys and	4				

Format of instruction	 ☑ lectures ☑ seminars and ☑ exercises □ on line in e □ partial e-learr □ field work Regular class att 	worksho ntirety ning endance	ops	□ independent a □ multimedia □ laboratory □ work with me □ (other)	assignments entor			
responsibilities	Active participat Password for AA	ion in th I EduHr	e teaching proce electronic identi	ess ty to access e-lear	rning			
Screening student work (name the	Class attendance	0.5	Research		Practical train	ning	0.5	
proportion of ECTS credits for each	Experimental work		Report					
activity so that the total number of ECTS	Essay		Seminar essa	у	(Other	-)		
credits is equal to the ECTS value of the	Tests		Oral exam		(Other	.)		
course)	Written exam	3.0	Project		(Other	•)	(224)	
Grading and	The final mark fr and practicals (1	om the (.0%).	course is calculat	ed from the poin:	ts from the w	ritten	exam (90%)	
evaluating student	Grading (%	6)	Criteria			Gra	ades	
work in class and at	70-79.9		average success	num criteria		goo	d(3)	
	80-89.9		above-average s	uccess		verv g	ood (4)	
		80-89.9 above-average success				very good (4)		
	90-100		outstanding suc	cess		oustan	iding (5)	
	90-100		outstanding suc	cess	Number of copies in th library	oustan f ie (uding (5) vailability via other media	
Required literature (available in the library and via other	P. Javor, Uvod Zagreb, 1993. iz više matem	u mate .; P.P. De atike, Za	outstanding suc Title matičku analizu, emidović, Zadaci agreb, 1990.	cess Školska knjiga, i riješeni primjeri	Number of copies in th library	oustan	uding (5) vailability via other media	
Required literature (available in the library and via other media)	P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Ja	u mate ; P.P. De atike, Za statistič strebars	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997.	cess , Školska knjiga, i riješeni primjeri matematičare,	Number of copies in th library	oustan f Ai ie d	uding (5) vailability via other media	
Required literature (available in the library and via other media)	P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Ja A. Škrbo, J. Pand Farmaceutski fal	u mate ; P.P. De latike, Za statistič strebars lžo, D. Za kultet, Sa	Title matičku analizu, midović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004.	cess , Školska knjiga, i riješeni primjeri matematičare, za farmaceute,	Number of copies in th library	oustan f Ar ie (oding (5) vailability via other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study	P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Ja A. Škrbo, J. Pand Farmaceutski fal D. Vukičević, Uvo of biological assa Strasbourg, 2005 I. Slapničar, Mat Practical and Clin	u mate ; P.P. De aatike, Za statistič strebars ižo, D. Za kultet, Sa od u stat ays and t 5.; ematika nical App	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004. tistiku, Sveučilišta tests, u: Europea 1, skripta, FESB (plications, Treće i	cess , Školska knjiga, i riješeni primjeri matematičare, i za farmaceute, e u Splitu, Split 20 n Pharmacopoeia (2002).; S. Bolton, izd., Marcel Dekko	Number of copies in th library 005.;Statistica , Fifth edition , Pharmaceut er, New York,	oustan f ne A A A A A A A A A A A A A A A A A A	vailability via other media /sis of results 1, EDQM, atistics. ;	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Ja A. Škrbo, J. Pand Farmaceutski fal D. Vukičević, Uvo of biological assa Strasbourg, 2009 I. Slapničar, Mat Practical and Clin L. Stefanini Oreš Farmaceutski gla Ferenczi E, Muir Medicinska nakl	u mate ; P.P. De atike, Za statistič strebars ižo, D. Za kultet, Sa od u stat ays and t 5.; ematika nical App ić, V. Gro asnik, 34 head N. ada; 201	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004. tistiku, Sveučilište tests, u: Europea 1, skripta, FESB olications, Treće i dinić, Osnovni sta :2-3 (1978) 39-54 Doktor u jednom 2.	cess , Školska knjiga, i riješeni primjeri matematičare, za farmaceute, za farmaceute, u Splitu, Split 20 n Pharmacopoeia (2002).; S. Bolton, izd., Marcel Dekko atističkih metoda 4; n potezu: Statistik	Number of copies in th library 005.;Statistica 0. Fifth edition , Pharmaceut er, New York, u općoj i farr a i epidemiol	oustan f e Al analy n, Vol. iical Sta , 1997. maceut	vailability via other media /sis of results 1, EDQM, atistics. ; tskoj analitici, Zagreb:	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	 90-100 P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Jas A. Škrbo, J. Pand Farmaceutski fal D. Vukičević, Uvo of biological assa Strasbourg, 2005 I. Slapničar, Mat Practical and Clin L. Stefanini Oreš Farmaceutski gla Ferenczi E, Muir Medicinska nakla 	u mate ; P.P. De latike, Za statistič strebars lžo, D. Za kultet, Sa od u stat ays and t 5.; ematika nical App ić, V. Gro asnik, 34 head N. ada; 201 vality ana	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004. tistiku, Sveučilište tests, u: Europea 1, skripta, FESB olications, Treće i dinić, Osnovni sta :2-3 (1978) 39-54 Doktor u jednom 2. alysis by students	cess Školska knjiga, i riješeni primjeri matematičare, a za farmaceute, e u Splitu, Split 20 n Pharmacopoeia (2002).; S. Bolton, izd., Marcel Dekko atističkih metoda 4; n potezu: Statistik s and teachers	Number of copies in th library 005.;Statistica , Fifth edition , Pharmaceut er, New York, u općoj i farn a i epidemiol	oustan f ne Al analy n, Vol. iical Sta , 1997. naceut ogija. 2	vailability via other media vsis of results 1, EDQM, atistics. ; tskoj analitici, Zagreb:	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	 90-100 P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Ja A. Škrbo, J. Pand Farmaceutski fal D. Vukičević, Uvo of biological assa Strasbourg, 2009 I. Slapničar, Mat Practical and Clin L. Stefanini Oreš Farmaceutski gla Ferenczi E, Muiri Medicinska nakli Teaching qu Exam passin 	u mate ; P.P. De atike, Za statistič strebars ižo, D. Za kultet, Sa od u stat ays and t 5.; ematika nical App ić, V. Gro asnik, 34 head N. ada; 201 nality ana g rate an	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004. tistiku, Sveučilište tests, u: Europea 1, skripta, FESB (olications, Treće i dinić, Osnovni sta :2-3 (1978) 39-54 Doktor u jednom 2. alysis by students nalysis	cess , Školska knjiga, i riješeni primjeri matematičare, za farmaceute, za farmaceute, e u Splitu, Split 20 n Pharmacopoeia (2002).; S. Bolton, izd., Marcel Dekko atističkih metoda 4; n potezu: Statistik s and teachers	Number of copies in th library	oustan f e Al analy n, Vol. iical Sta , 1997. naceut ogija. 2	vailability via other media /sis of results 1, EDQM, atistics. ; tskoj analitici, Zagreb:	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	 90-100 P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Jas A. Škrbo, J. Pand Farmaceutski fal D. Vukičević, Uvo of biological assa Strasbourg, 2005 I. Slapničar, Mat Practical and Clint L. Stefanini Oreš Farmaceutski gla Ferenczi E, Muir Medicinska nakla Teaching qu Exam passin Committee 	u mate ; P.P. De atike, Za statistič strebars lžo, D. Za kultet, Sa od u stat ays and t 5.; ematika nical App ić, V. Gro asnik, 34 head N. ada; 201 mality ana ng rate au for contu	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004. tistiku, Sveučilište tests, u: Europea 1, skripta, FESB oblications, Treće i dinić, Osnovni sta :2-3 (1978) 39-54 Doktor u jednom 2. alysis by students nalysis rol of teaching re	cess , Školska knjiga, i riješeni primjeri matematičare, a za farmaceute, e u Splitu, Split 20 n Pharmacopoeia (2002).; S. Bolton, izd., Marcel Dekko atističkih metoda 4; n potezu: Statistik s and teachers eports	Number of copies in th library 005.;Statistica , Fifth edition , Pharmaceut er, New York, u općoj i farr a i epidemiol	oustan f ne A A A A A A A A A A A A A A A A A A	vailability via other media vsis of results 1, EDQM, atistics. ; tskoj analitici, Zagreb:	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	 90-100 P. Javor, Uvod Zagreb, 1993. iz više matem B.Petz, Osnovne Naklada Slap, Jan A. Škrbo, J. Pand Farmaceutski fal D. Vukičević, Uvo of biological assa Strasbourg, 2009 I. Slapničar, Mat Practical and Clin L. Stefanini Oreš Farmaceutski gla Ferenczi E, Muiri Medicinska nakli Teaching qu Exam passin Committee External eva 	u mate ; P.P. De atike, Za statistič strebars ižo, D. Za kultet, Sa od u stat ays and t 5.; ematika nical App ić, V. Gro asnik, 34 head N. ada; 201 nality ana for contr aluation	Title matičku analizu, emidović, Zadaci agreb, 1990. ke metode za ne ko, 1997. avršnik, Statistika arajevo, 2004. tistiku, Sveučilište tests, u: Europea 1, skripta, FESB (olications, Treće i dinić, Osnovni sta :2-3 (1978) 39-54 Doktor u jednom 2. alysis by students nalysis rol of teaching re	cess , Školska knjiga, i riješeni primjeri matematičare, za farmaceute, za farmaceute, e u Splitu, Split 20 n Pharmacopoeia (2002).; S. Bolton, izd., Marcel Dekko atističkih metoda 4; n potezu: Statistik s and teachers eports	Number of copies in th library	oustan f e A a a a a a a a a a a a a a a a a a a	vailability via other media /sis of results 1, EDQM, atistics. ; tskoj analitici, Zagreb:	

NAME OF THE COURSE	E	Genera	l Chemistr	y and Stoichic	ometry					
Code	ZSL633			Year of stu	ıdy	1	1			
Course teacher	Davorka professo	a Sutlović or with te	, PhD, Full enor	Credits (EC	CTS)	4				
Associate teachers	lvana Fr	anić, assi	istant	Type of ins	struction	L	S	E	F	
				(number d	nours)	30	20	15		
Status of the course	Mandate	ory		Percentag of e-learni	e of application ng	Up to 2	0%			
	•		COU	RSE DESCRIPT						
Course objectives	Introduo chemist educatio	cing stud ry that a on, more	ents to the re the basis complex a	basic knowle for mastering reas of chemis	dge of general ch g the materials o stry.	nemistry, j f other, in	orinciple: the con	and law	s of of	
Course enrolment requirements and entry competences required for the course	No requ	ducation, more complex areas of chemistry. lo requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)		underst describe chemica explain explain system. distingu calculat	anding of t e basic con al elements the structu the period hish types o e stoichion	pasic concepts cepts in the fig and bonds, ire of atoms a ic table of eler f chemical bo netric ratios in	and principles ir eld of composition nd electronic cor ments and the cla nds and their pro organic and ino	n the field on and sep nfiguration assificatio operties. rganic sub	of gener paration n. n of elen pstances	al chemis of substa nents in t	stry, nces, he	
	Cour	se e		т	eaching unit			1	Hours	
	L	ln su	troduction Ibstances a	to chemistry, nd properties	units of measure of substances	ement, tyj	pes of		3	
Course content	L/S	At	tom, eleme	ents, periodic t	able of elements	5			5,2	
broken down in detail	L/S	lo	nization er	ergy, chemica	Il bonds, electror	negativity			5,2	
by weekly class	L/S	G	ases and so	olutions, gas la	ws				2,2	
schedule (synabus)	L/S	Ty te	pes of soluer perature	and pressure	ion of concentration of concentration of concentration of concentration of concentration of concentration of c	itions, infl	uence of		4,3	
	L/S	Cł	nemical rea	ctions, redox	reactions				4,3	
	L/S	Ki	netics of ch	nemical reaction	ons. Electrochem	nical react	ions.		3,3	
	L/S F	St Dr	oicniometr	y. ercises					4,5	
Format of instruction	⊠ lectu ⊠ semi exercis □ on lin ⊠ parti □ field	A stolchiometry. E Practicum exercises tures Independent assignments minars and workshops Independent assignments cises Independent assignments line in entirety Independent assignments rtial e-learning work with mentor d work (other)						10		
Student responsibilities	Regular Active p Passwor	class atte articipat rd for AA	endance ion in the t I EduHr ele	eaching proce ctronic identit	ss y to access e-lea	irning				
Screening student	Class	_		Research		Practical	work 0.5	;		
work (name the proportion of ECTS	attenda Experim work	nce Iental		Report		(0	ther)			
activity so that the	Essay			Seminar essa	y 0.5	(0	ther)			

total number of ECTS	Tests		Oral exam			(Other)		
ECTS value of the course)	Written exam	3.0	Project			(Other)		
	Verification indicators Success (points)						ss Rating share (%		
	Experimental w	Experimental work (practical exercises) 5						12.5	
	Seminar paper	Seminar paper (presentation) 5						12.5	
	Written exam (minimu	m pass rate on the	:	30)		75	
Grading and	test is 60% of c	orrectly	solved tasks)						
evaluating student	Total				40			100	
work in class and at the final exam			RATIO OF SUCC	ESS A	AND EVAL	JATION			
	Achieved succe	ess	Criterion				rating		
	percentage (%))							
	60-69,9		meets minimum o	riter	ia		su	fficient (2)	
	70-79,9		average success					good (3)	
	80-89,9		above average su	ccess	5		ve	ry good (4)	
	90-100		outstanding succe	255			ex	cellent (5)	
			Title			copies	ber of 5 in the	Availability via	
Required literature						lib	rary	other media	
Required literature	Filipović, I., Lipar	nović, S.,	Opća i anorgansk	a ker	nija I dio,	lib 3/	r ary ′15	other media	
Required literature (available in the library and via other	Filipović, I., Lipar Školska knjiga, Z	nović, S., agreb, 19	Opća i anorgansk 995	a ker	mija I dio,	libr 3/	r ary ′15	other media	
Required literature (available in the library and via other media)	Filipović, I., Lipar Školska knjiga, Z Sikirica M. Stehio	nović, S., agreb, 19 ometrija,	Opća i anorgansk 995 , Školska knjiga, Za	a ker Igreb	mija I dio, o,. XX.	libi 3/	r ary /15	other media	
Required literature (available in the library and via other media)	Filipović, I., Lipar Školska knjiga, Z Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 19 ometrija,	Opća i anorgansk 995 , Školska knjiga, Za	a ker Igreb	mija I dio, o,. XX.	libr 3/	r ary ′15	other media	
Required literature (available in the library and via other media)	Filipović, I., Lipar Školska knjiga, Z. Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 19 ometrija	Opća i anorgansk 995 , Školska knjiga, Za	a ker	mija I dio, o,. XX.	lib 3/	r ary /15	other media	
Required literature (available in the library and via other media) Optional literature (at	Filipović, I., Lipar Školska knjiga, Z Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 19 ometrija,	Opća i anorgansk 995 , Školska knjiga, Za	a ker Igreb	mija I dio, o,. XX.	lib 3/	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of	Filipović, I., Lipar Školska knjiga, Z Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 1 <u>9</u> ometrija	Opća i anorgansk 995 , Školska knjiga, Za	a ker	nija I dio, ,. XX.	lib 3/	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study	Filipović, I., Lipar <u>Školska knjiga, Z</u> Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 19 ometrija,	Opća i anorgansk 995 , Školska knjiga, Za	a ker	nija I dio, XX.	lib 3/	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Filipović, I., Lipar Školska knjiga, Z. Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 19 ometrija	Opća i anorgansk 995 , Školska knjiga, Za	a ker	nija I dio, o,. XX.		r ary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	Filipović, I., Lipar <u>Školska knjiga, Z.</u> Sikirica M. Stehio izdanje, 2008.	nović, S., agreb, 19 ometrija,	Opća i anorgansk 995 , Školska knjiga, Za y analysis by stude	a ker ngreb	nija I dio, o,. XX. and teache	rs	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of evit	Filipović, I., Lipar <u>Školska knjiga, Z</u> Sikirica M. Stehio izdanje, 2008. Teachin Exam p.	nović, S., agreb, 19 ometrija, ng quality assing ra	Opća i anorgansk 995 , Školska knjiga, Za y analysis by stude te analysis	a ker	nija I dio, o,. XX.	rs	r ary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Filipović, I., Lipar Školska knjiga, Z. Sikirica M. Stehio izdanje, 2008. Teachin Exam p. Commit	nović, S., agreb, 19 ometrija, ng quality assing ra ttee for o	Opća i anorgansk 995 , Školska knjiga, Za y analysis by stude ite analysis control of teaching	a ker greb nts a g repo	nija I dio, o,. XX. and teache	rs	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Filipović, I., Lipar <u>Školska knjiga, Z</u> Sikirica M. Stehio izdanje, 2008. Teachin Exam p Commit Externa	nović, S., agreb, 19 ometrija, ng quality assing ra ttee for c al evaluat	Opća i anorgansk 995 , Školska knjiga, Za y analysis by stude te analysis control of teaching tion	a ker greb nts a	nija I dio, o,. XX. and teache	rs	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to	Filipović, I., Lipar <u>Školska knjiga, Z</u> Sikirica M. Stehio izdanje, 2008. Teachin Exam p Commit Externa	nović, S., agreb, 19 ometrija, ng quality assing ra ttee for o al evaluat	Opća i anorgansk 995 , Školska knjiga, Za y analysis by stude Ite analysis control of teaching tion	a ker greb nts a g repo	nija I dio, o,. XX. and teache	rs	rary /15	other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences Other (as the proposer wishes to add)	Filipović, I., Lipar Školska knjiga, Z. Sikirica M. Stehic izdanje, 2008. • Teachin • Exam p. • Commit • Externa	nović, S., agreb, 19 ometrija, ng quality assing ra ttee for o il evaluat	Opća i anorgansk 995 , Školska knjiga, Za y analysis by stude ite analysis control of teaching tion	a ker greb nts a g repo	nija I dio, o,. XX. and teache	rs	rary /15	other media	

NAME OF THE COURSE		Organic Chemistry								
Code	ZSL603		Year of study	1						
Course teacher	Davorka S professor	utlović, PhD, Full with tenor	enor Credits (ECTS)							
Associate teachers	Ivana Fran	nić, assistant	Type of instruction	L S E F						
Status of the course	Mandator	Ŷ	Percentage of application	30 Up to 20	20)%	15				
			of e-learning							
	I	COURS	E DESCRIPTION							
Course objectives Course enrolment	other cour Moreover education	rses, particularly in the rses, particularly Bio , the acquired know in organic chemistry	chemistry. ledge gives students the con y at a higher level.	npetence	required	for furth	ner			
requirements and entry competences required for the	No require	ements								
course										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After com	 pleting the course, s Explain the relat Develop precision Differentiate been Differentiate been Differentiate been Differentiate been Interpret the read Know the acid-been Develop a basis Develop a basis Develop a basis Develop a basis Explain the meth Explain the struct 	Attudents will be able to: Sionship within and between on in determining the names tween optical and constitution tween the electrophile and to tween addition and substiture action classification in organi- ase balance; for understanding difference for understanding difference to understanding d	molecule of individ onal isome the nucleo tion; ic chemist e between ce betwee acids; e difference	s; ual organ ers; ophile; ry; n carbohy en simpl ce betwe	nic comp ydrates; le and co en them	ounds; omplex			
	Course type		Teaching unit			1	Hours			
	Lectures/ eminars	'S Bonds in molec optical activity.	ules. Isomers: constitutional	; Chirality	and		2,1			
	Lectures/ eminars	'S Intermolecular	bonds				1,1			
	Lectures/ eminars	S Functional grou Nomenclature.	ips and types of organic com	pounds -			2,1			
Course content	Lectures/ eminars	'S Isomers: consti Chirality and op	tutional; E- and Z-isomers; o otical activity.	ptical isor	ners.		1,1			
broken down in detail by weekly class	Lectures/ eminars	'S Acid-base balar	nce.				2,1			
schedule (syllabus)	Lectures/ eminars	^{'S} Electrophiles ar	nd nucleophiles.				2,1			
	Lectures/ eminars	'S Reaction classif	ication in organic chemistry.				1,1			
	Lectures/	Alkanes and Alk	kenes.				2,1			
	Lectures/	Substitution.					1,1			
	Lectures/ eminars	Addition - elect	rophilic and according to the	e type of r	adical.		2,1			

	Lectures/S	Polymerizat	ion					1,1
	eminars	Torymenzat	1011.					
	Lectures/S	Nucleophilio	substitution at	satu	rated carb	on: SN1	and SN2-	2,1
	eminars	mechanisms	5.					1.1
	Lectures/S	Elimination	reactions. Alcoh	ols.				1,1
	Lectures/S							11
	eminars	Carbonyl co	mpounds - alder	nyde	s and keto	nes.		1,1
	Lectures/S	The nuclear	bilic addition to	the	carbonul a	roup		1,1
	eminars			the	carbonyig	roup.		
	Lectures/S	Carboxvlic a	cids and derivat	ives.				1,1
	eminars							
	Lectures/S	Nucleophilic	substitution at	the o	carbonyl gi	roup.		1,1
								11
	eminars	Aromatic co	mpounds. Electr	roph	ilic aromat	ic substi	tution.	1,1
	Lectures/S		Heterocyclic compounds with ovygen nitrogen and sulfur					
	eminars	Heterocyclic	Heterocyclic compounds with oxygen, nitrogen and sulfur.					
	Lectures	Carbohydra	Carbohydrates -monosaccharides, oligosaccharides and					
		polysacchar	ides.					
	Lectures	Simple and	complex lipids.					2
	Lectures/S	Aminocarbo	xylic acids, pept	ides	and prote	ins. Nucl	eic acids.	2,1
	exercises							3
	exercises							3
	exercises							3
	exercises						3	
	exercises		3					
	⊠ lectures		Г	∃ind	ependent	assignm	ents	
	Seminars a	and workshop	os E] mi	ultimedia			
Format of instruction	exercises] lat	oratory			
	□ <i>on line</i> in e	entirety] wc	ork with m	entor		
	D field work	earning			(other	.)		
	Begular class	attendance						
Student	Active partici	pation in the	teaching process	5				
responsibilities	Password for	AAI EduHr ele	ectronic identity	to a	ccess e-lea	arning		
Screening student	Class		Research			Practica	l work 0.5	
work (name the	attendance		Research					
proportion of ECTS	Experimental		Report			(Other)	
activity so that the			C	0.5		(Other)	
total number of ECTS	Essay		Seminar essay	0.5			out)	
credits is equal to the	Tests		Oral exam	1.0		(Uther)	
course)	Written exam	n 2.0	Project			(Other)	
					6		Pating charg	e (%)
	Verification	indicators		indicators			Rating share	
	Verification	indicators			Success (points)		Rating share	. ,
Grading and	Verification Experimenta	indicators al work (pract	ical exercises)		Success (points) 5		12.	5
Grading and evaluating student	Verification Experimenta Seminar pap	indicators al work (pract per (presentat	ical exercises) tion)		Success (points) 5		12. 12.	5
Grading and evaluating student work in class and at	Verification Experimenta Seminar pap Written exa test is 60% of	indicators al work (pract per (presentat m (minimum of correctly se	ical exercises) tion) pass rate on the plyed tasks)		success (points) 5 5 30)	12. 12. 75	5
Grading and evaluating student work in class and at the final exam	Verification Experimenta Seminar pap Written exa test is 60% o	indicators al work (pract per (presentat m (minimum of correctly so	ical exercises) tion) pass rate on the lved tasks)		success (points) 5 5 30 40)	12. 12. 75	5 5 0
Grading and evaluating student work in class and at the final exam	Verification Experimenta Seminar pap Written exa test is 60% o Total	indicators al work (pract per (presentat m (minimum of correctly sc	ical exercises) tion) pass rate on the lved tasks)		Success (points) 5 5 30 40)	12. 12. 75	5 5 5 0
Grading and evaluating student work in class and at the final exam	Verification Experimenta Seminar par Written exa test is 60% o Total	indicators al work (pract per (presentat m (minimum of correctly so	ical exercises) tion) pass rate on the lived tasks)		Success (points) 5 5 30 40)	12. 12. 75	5 5 0

	RATIO OF SUCCESS AND EVALUATION						
	Achieved success	Criterion		rating			
	percentage (%)						
	60-69,9		su	fficient (2)			
	70-79,9	average success			good (3)		
	80-89,9	above average success		ve	ry good (4)		
	90-100	outstanding success		ex	cellent (5)		
Required literature		Title	Num copies libi	ber of 5 in the rary	Availability via other media		
(available in the	L.G. Wade, Jr. Organic	chemistry, seventh Edition	3/	/15			
library and via other media)	Other materials: ppt or	the Merlin platform					
Optional literature (at the time of submission of study programme proposal)	T.W. Solomons & C.B. F Wiley and Sons, Inc., No	Tryhle: Organic chemistry, Internation ew York, 2011.	onal Stu	dent Ver	rsion (X. Ed.), John		
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quali Exam passing Committee for External evalu 	ity analysis by students and teacher rate analysis r control of teaching reports ation	rs				
Other (as the proposer wishes to add)							

NAME OF THE COURSE	SE Analytical Chemistry							
Code	ZSL632		Year of study	1				
Course teacher	Davorka Sutlović, PhD, Full Credits (ECTS)							
Course teacher	professo	r with tenor	Credits (ECTS)					
	lvana Fra	anić, assistant	Type of instruction	L	S	Е	F	
Associate teachers			(number of hours)	30	20	15		
	Manadat	tory	Percentage of application	Up to 2	0%			
Status of the course		,	of e-learning	•				
		COURS	E DESCRIPTION					
Course objectives	The basic knowledge of analytical chemistry acquired in this course enables stu work independently in the laboratory. Introducing students to the proce- measurement results, measurement quantities, expression of concentrations, stoid and chemical equilibrium with emphasis on analytical application. The course is the basis for understanding other courses, especially the courses of Chemistry and Biochemistry.						ints to: ing of ometry Organic	
Course enrolment								
requirements and	No requi	rements						
entry competences								
course								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - - - - - -	npleting the course th Calculate pH value in calculate the redox e explain the concept of set and numerically s assess the biochemic based on knowledge located; distinguish and know laboratory, determine the concer- variables using a calib	ne student will be able to: simple and complex acid-ba quilibrium constant; of solution and the concept of olve analytical problems; al behavior of atoms, molect of their structure and the en how to choose appropriate ntration of an unknown subs pration diagram.	se systen of solubilit ules and i vironmen techniqu stance on	ns. ty, ons in th nt in whit es in the the basi	e human ch they a analytica s of know	body re Il /n	
	Cours type	e	Teaching unit			1	Hours	
		Introduction, hi	istory and significance of ana	alytical ch	emistry		2	
	1/5	Chamical reacti	on and aquilibrium. Kinatias	, of chomi	, aal		4.2	
	L/ 3	reactions.	on and equilibrium. Kinetics	or chemi	Cal		4,2	
	L/S/E	Acid-base react Solutions	ions and equilibria, buffers a	ind acid s	trengths		4,2,2	
	L/S	Enzyme kinetics	s. Electrochemical reactions,	standard	l potentia	al	2,2	
Course content	L/S	Laboratory acce	essories and its application				1,2	
broken down in detail		Preparation of s	solutions of certain concentr	ations.	a ati a a ad		2,3	
schedule (syllabus)	L/S/E	the substance	analyte between the two ph	ases, extr	action of	-	2,2,2	
	L/S/E	Quantitative ch neutralization a analysis of iron	emical analysis - volumetric and oxidoreduction and spec mass in the sample.	methods trophoto	of metric		2,1,5	
	L/S/E	Buffer capacity	analysis.				2,1,3	
	L/S	Qualitative pote	entiometric analysis of amin	o acids.			2	
	L/S/E	Chromatograph	ι <u>γ</u>				2,1,3	
	L/E	Analysis of real	biological samples				4,5	
	L/S	Basic principles	of analytical techniques				1,2	

Format of instruction	 lectures seminars and workshops exercises on line in entirety partial e-learning field work 				 independent assignments multimedia laboratory work with mentor (other) 				
Student responsibilities	Regular class attendance Active participation in the teaching process Password for AAI EduHr electronic identity to access e-learning								
Screening student	Class attendance		Research			Practica	al work ().5	
proportion of ECTS credits for each	Experimental work		Report			(Other)		
activity so that the total number of ECTS	Essay		Seminar essa	y 0.5		(Other)		
credits is equal to the	Tests		Oral exam				Other)		
course)	Written exam	3.0	Project			(Other)		
	Verification ind Experimental w Seminar paper Written exam (ical exercises) ion) pass rate on th	ne	Success (points) 5 5 2 30		Rating share (%) 12.5 12.5 75			
Grading and	test is 60% of correctly solved tasks)				40	100			
work in class and at									
the final exam	RATIO OF SUCCESS AND EVALUATION								
	percentage (%)	Renon							
	60-69,9 meets minimur				n criteria			sufficient (2)	
	80-89.9	verage success	s success			very good (4)			
	90-100 outstanding success					excellent (5)			
	Title					Number of copies in the library		Availability via other media	
(available in the	Nj. Radić, L. Kukoć Modun. Uvod u analitičku kemiju, Školska knjiga, Zagreb, 2016.					3/15			
library and via other media)	Sikirica M. Stehiometrija, Školska knjiga, Zagreb,. XX. izdanje, 2008.								
Optional literature (at the time of submission of study programme proposal)									
Quality assurance	 Teachin 	ig quality a	nalysis by stud	lents a	and teacher	ſS			
methods that ensure	 Exam passing rate analysis 								
competences	 Committee for control of teaching reports External evaluation 								
Other (as the proposer wishes to add)									

NAME OF THE COURSE Clin		Clinical Skills I	inical Skills I							
Code	ZSL605		Year of stu	of study 1.						
	Daniela Š	upe-Domić, PhD,								
Course teacher	Assistant	professor	Credits (EC	(15)						
Associate teachers	Marija Ba med. lab. Vladimira med. lab. Arijana V univ.bacc Mirela Ze dipl.eng. lecturer Tanja Vis univ.bacc Kristina E univ.bacc Mirjana Č univ.bacc Robert D univ.bacc Vesela To Assistant (Sandra 2)	anić, univ. bacc. . diagn. a Martić, univ. bacc. . diagn. uko, c.med.lab.diagn. ec, med.lab.diagn., ković, c.med.lab.diagn. Bedrina, c.med.lab.diagn. čorić Mesarić, c.med.lab.diagn. elaš, c.med.lab.diagn. professor Šego, .lab.diagn.)	Type of in (number c	struction of hours)	10	S 10	PCE	CE 100		
Status of the course	Mandato	ory COLIPS	Percentag of e-learni	age of application Till 10% ning						
Course enrolment	To ovolai	cours	e DESCRIP	modical laborator	a, diagno	ctics Acc	wirod			
requirements and entry competences required for the course	knowledge and skills should enable understanding of the basic principles of work in the laboratory and application of basic skills in laboratory diagnostic practice.									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 After completing the course the student will be able to: Describe the organization of medical laboratory services based on people's needs Describe collection, processing and results of collected samples Explain the organization of medical biochemistry laboratories of different specialties Prepare the patient for blood sampling Collect and process data obtained from laboratory analysis 									
Course content broken down in detail by weekly class schedule (syllabus)	L,S	Organization of medical laboratory services, collection, processing and storage of collected samples						10,10		
	E	E Clinical skills in medical biochemistry la				у	60			
	E Clinical skills in transfusion center						15			
	E Clinical skills in pathohistological labora						15			
	E Clinical Skills in microbiological laboratory						15	5		
	E Clinical skills in laboratory for nuclear medicine 15							5		
Format of instruction	x lectures x semina x exercise 0 on l partial field w	turesindependent assignmentsminars and workshopsindependent assignmentsercisesmultimedial on line in entiretyx laboratoryartial e-learningwork with mentoreld work(other)								

Student responsibilities	Regular class attendance Active participation in the teaching process Password for AAI EduHr electronic identity to access e-learning								
Screening student work (name the proportion of ECTS credits for each	Class attendance	0,86	Research		Practical training				
	Experimental work		Report						
activity so that the total number of ECTS	Essay		Seminar essay		(Other)				
credits is equal to the	Tests	5,14	Oral exam		(Other)				
course)	Written exam		Project		(Other)				
Grading and evaluating student work in class and at the final exam	Written exam								
Required literature (available in the library and via other media)			Number of copies in the library	Availability via other media					
	C.A. Burtis, E.R. of Clinical Cl izdanje. St. L poglavlja	Aschwood nemistry uis: Elsev							
	E. Topić, D. Primorac, S. Janković, M. Stefanović i sur. Medicinskobiokemijska dijagnostika u kliničkoj praksi, 2. dopunjeno i izmijenjeno izdanje, Medicinska naklada, Zagreb, 2018.								
	D. Čvorišćec, I. Č Medicinska nakl	epelak Štr ada, Zagre							
Optional literature (at the time of submission of study programme proposal)	W.G. Guder, S. Narayanan, H. Wisser, B. Zawta Diagnostic Samples: From the Patient to the Laboratory: The Impact of Preanalytical Variables on the Quality of Laboratory Results, 4th, Updated Edition, Git Vwerlag GMBH, 2009.								
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 								
Other (as the proposer wishes to add)									

NAME OF THE COURSE	COURSE Introduction to Sci				ientific Work						
Code	ZSL621			Year of stu	ıdy						
Course teacher	Davorka Sutlović, PhD, Full professor with tenor			Credits (E	CTS)	2					
	Vjekoslav Krželj, PhD, Full					L	S	E	F		
Associate teachers	professor with tenor Frane Mihanović, PhD, Assistant professor Sendi Kuret, PhD, Assistant professor Ante Burger, PhD, Assistant professor Diana Aranza, lecturer Mario Marendić, lecturer Mario Podrug, assistant		Type of in: (number c	e of instruction nber of hours)		10	12				
Status of the course	Mandatory			Percentage of application Up to 20%							
			001100	of e-learni	ing						
	To the off		COURS	E DESCRIPT	TION						
Course objectives	To transfer to students knowledge from research methodology that will integrate with acquired knowledge about the use of medical information and the application of statis methods and procedures in medicine. Based on such integration, students will acquire I knowledge and skills for research and use of professional and scientific literature.							itistical e basic			
Course enrolment requirements and entry competences required for the course	No requirements										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 After completing and passing the course, students will: Understand the sources and ways of creating real knowledge; Explain the different structures of health research; Understand the different ways of presenting the data collected in the research; Critically evaluate data views and critically analyze scientific reports on medical r 						arch; dical rese	earch.			
	Course t	туре		Т	eaching unit				Hours		
	L/S		Scientific research						2,1		
	L/S		Hypothesis and statistical hypothesis						1,1		
Course content	L/S		Types of research						1,1		
by weekly class		-	Research planning						1,1,2		
schedule (syllabus)	L/ S/ E S/F	-	Data display						1,1,2 2 1		
	5/L S/F		Scientific nublication						2,1		
	S/E		Material of a scientific article						1.2		
	S/E Publication of research								1,2		
	\boxtimes lectures								,		
Format of instruction Format of instruction □ on line in entirety □ partial e-learning □ field work			d workshops tirety arning	 independent assignments multimedia laboratory work with mentor (other) 							
Student responsibilities	Regular class attendance Active participation in the teaching process Password for AAI EduHr electronic identity to access e-learning										
Screening student	Class attendance	0.2	Research			(Other)				
---	--	---	--	--	---	---	--	--	--		
proportion of ECTS credits for each	Experimental work		Report			(Other)				
activity so that the	Essay		Seminar essay			(Other)				
credits is equal to the	Tests		Oral exam			(Other)				
ECTS value of the course)	Written exam	1.0	Project	0.8		(Other)				
	Verification ind	licators			Success (points)		Rating share (%)				
	Attendance and seminars for 10	Attendance and activity at lectures and 4 seminars for 100% attendance						10			
	Project Written exam (minimum	pass rate on the	1	16 20			40 50			
Grading and evaluating student	test is 60% of c	orrectly s	olved tasks)								
work in class and at	Total				40			100			
the final exam			RATIO OF SUCC	ESS A		JATION		•			
	Achieved succe	ess C	Criterion					Rating			
	percentage (%)										
	60-69,9	r	neets minimum o	riter	ia		good (3)				
	80-89.9		bove average success	ccess			ver	ry good (4)			
	90-100 outstanding success excel										
	90-100	C	outstanding succe	ess			ex	cellent (5)			
Required literature	90-100		utstanding succe	255		Num copies libi	ex ber of 5 in the cary	cellent (5) Availability via other media			
Required literature (available in the library and via other	90-100 Marušić M, ed. li	ntroductio	outstanding succe Title on to scientific we	ess ork ir	n	Num copies libi	ex ber of s in the rary	cellent (5) Availability via other media https://webknji			
Required literature (available in the library and via other media)	90-100 Marušić M, ed. li medicine. 4th ec	ntroductio lition. Zag	Title on to scientific we	ess ork ir nakla	n ada; 2008	Num copies libi	ex ber of s in the rary 0	cellent (5) Availability via other media https://webknji zara.hr/			
Required literature (available in the library and via other media)	90-100 Marušić M, ed. In medicine. 4th ec Teaching materia	ntroductio lition. Zag als for ind	Title on to scientific ware greb: Medicinska	ork ir nakla units	n ada; 2008	Num copies libi	ex ber of s in the rary 0	cellent (5) Availability via other media https://webknji zara.hr/			
Required literature (available in the library and via other media)	90-100 Marušić M, ed. In medicine. 4th ec Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut:	ntroductio lition. Zag als for ind iovne stat p 2004. cel N. How Greenwo	Title on to scientific w greb: Medicinska lividual teaching sističke metode za v to write and pul bod Press, 2006.	ork ir nakla units a ner blish	n ada; 2008 matematiča a scientific	Num copies libi are. 5. iz	ex ber of s in the rary 0	Availability via other media https://webknji zara.hr/ https://webknji on. Westport,			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study	90-100 Marušić M, ed. In medicine. 4th ed Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut: 2. Lang T, Secic Authors, Edit Physicians, 2	ntroduction lition. Zag als for ind iovne stat p 2004. cel N. How Greenwo M. How tors, and 006.	Title on to scientific wards greb: Medicinska lividual teaching of cističke metode za v to write and pul bod Press, 2006. To Report Statisti Reviewers, 2nd e	ork ir nakla units a ner blish ditio	n ada; 2008 matematiča a scientific Medicine: n. Philade	Num copies libi are. 5. iz paper, Annota lphia: An	ex ber of s in the rary 0 danje. Ja 6th editi ted Guid merican (Availability via other media https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	90-100 Marušić M, ed. lu medicine. 4th ed Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut: 2. Lang T, Secic Authors, Edit Physicians, 2 3. Ogrinc GS, H (II): USA Join	htroductio lition. Zag als for ind ovne stat p 2004. Greenwo M. How tors, and 006. eadrick Lo t Commis	Title Title on to scientific wards greb: Medicinska lividual teaching of ističke metode za v to write and pul- bod Press, 2006. To Report Statisti Reviewers, 2nd e A. Fundamentals sion Resources, 2	ork ir nakla units a ner blish ditio of He 2008.	n ada; 2008 matematiča a scientific Medicine: n. Philade ealth Care	Num copies libi are. 5. iz paper, Annota lphia: An Improve	ex ber of s in the rary 0 danje. Ja 6th editi ted Guid merican (ement. O	Availability via other media https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	90-100 Marušić M, ed. In medicine. 4th ed Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut: 2. Lang T, Secic Authors, Edit Physicians, 2 3. Ogrinc GS, H (II): USA Join Committee on As Washington DC:	ntroduction lition. Zag als for ind iovne stat p 2004. cel N. How Greenwo M. How tors, and 006. eadrick Lo t Commis ssessing I Institute	Title Title on to scientific we greb: Medicinska lividual teaching of cističke metode za v to write and pul- bod Press, 2006. To Report Statisti Reviewers, 2nd e A. Fundamentals sion Resources, 2 ntegrity in Researd of Medicine and	ork ir nakla units a ner blish ditio of He 2008. rch E Natio	n ada; 2008 matematiča a scientific Medicine: n. Philade ealth Care nvironmen onal Resea	Num copies libi are. 5. iz paper, Annota Iphia: An Improve its. Integ rch Cour	ex ber of s in the rary 0 danje. Ja 6th editi ted Guid merican (ement. O grity in So ncil.	Availability via other media https://webknji zara.hr/ ostrebarsko: on. Westport, lelines for College of akbrook Terrace cientific Research.			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	90-100 Marušić M, ed. In medicine. 4th ed Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut: 2. Lang T, Secic Authors, Edit Physicians, 2 3. Ogrinc GS, H (II): USA Join Committee on As Washington DC:	ntroductio lition. Zag als for ind ovne stat p 2004. cel N. How Greenwo tors, and 006. eadrick L0 t Commis ssessing li Institute g quality	Title Title on to scientific we greb: Medicinska lividual teaching u sističke metode za v to write and pu bod Press, 2006. To Report Statisti Reviewers, 2nd e A. Fundamentals sion Resources, 2 ntegrity in Resear of Medicine and analysis by stude	ork in nakla units a ner blish ditio of He 2008. rch E Natic	n ada; 2008 matematiča a scientific Medicine: n. Philade ealth Care nvironmen onal Reseau and teache	Num copies libu are. 5. iz are. 5. iz paper, Annota Iphia: An Improve nts. Integ rch Cour	ex ber of s in the rary 0 danje. Ja 6th editi ted Guid merican (ement. O grity in So ncil.	Availability via other media https://webknji zara.hr/ estrebarsko: on. Westport, lelines for College of akbrook Terrace cientific Research.			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	90-100 Marušić M, ed. In medicine. 4th ec Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut: 2. Lang T, Secic Authors, Edit Physicians, 2 3. Ogrinc GS, H (II): USA Join Committee on As Washington DC: • Teachin • Exam pa	ntroductio dition. Zag als for ind iovne stat p 2004. iel N. How Greenwo M. How tors, and 006. eadrick L/ t Commis ssessing I Institute g quality assing rat	Title Title on to scientific we greb: Medicinska lividual teaching we ističke metode za v to write and pul- bod Press, 2006. To Report Statisti Reviewers, 2nd e A. Fundamentals sion Resources, 2 ntegrity in Researd of Medicine and analysis by stude e analysis	ork ir nakla units a ner blish ditio of He 2008. rch E Natic nts a	n ada; 2008 matematiča a scientific Medicine: n. Philade ealth Care nvironmen onal Resear and teache	Num copies libu are. 5. iz paper, Annota lphia: An Improve nts. Integ rch Cour rs	ex ber of s in the rary 0 danje. Ja 6th editi ted Guid merican (ement. O grity in So ncil.	Availability via other media https://webknji zara.hr/ estrebarsko: on. Westport, lelines for College of akbrook Terrace cientific Research.			
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	90-100 Marušić M, ed. In medicine. 4th ed Teaching materia 1. Petz, B. Osn Naklada Sla 1. Day RA, Gast Connecticut: 2. Lang T, Secic Authors, Edit Physicians, 2 3. Ogrinc GS, H (II): USA Join Committee on As Washington DC: • Teachin • Exam pa • Commit	ntroduction lition. Zag als for ind iovne stat p 2004. cel N. How Greenwo M. How tors, and 006. eadrick Lu t Commis ssessing I Institute g quality assing rat ttee for co l evaluati	Title on to scientific wards greb: Medicinska lividual teaching of cističke metode za v to write and pul- bod Press, 2006. To Report Statisti Reviewers, 2nd e A. Fundamentals sion Resources, 2 ntegrity in Resear of Medicine and analysis by stude e analysis ontrol of teaching on	ork ir nakla units a ner blish ditio of He 2008. rch E Natic nts a	n ada; 2008 matematiča a scientific Medicine: n. Philade ealth Care nvironmen onal Resear and teache orts	Num copies libi are. 5. iz paper, Annota lphia: An Improve nts. Integ rch Cour	ex ber of s in the rary 0 	Availability via other media https://webknji zara.hr/ https://webknji strebarsko: https://webknji zara.hr/ https://webknji zara.hr/ https://webknji zara.hr/ https://webknji strebarsko: https://webknji strebarsko: https://webknji https://webknji strebarsko: https://webknji strebarsko: https://webknji strebarsko: https://webknji https://webknji strebarsko: https://w			

NAME OF THE COURSE	Use of Scientific Technology									
Code	ZSZ622			Year of stu	ıdy		2.			
Course teacher	Antonela Assistant	a Matan t Profess	a, PhD sor	Credits (E0	CTS)		1.5			
Associate teachers				Type of in	structi	on	L	S	Т	
				(number c	of nou	rs)	10	12		
Status of the course	Mandato	ory		Percentag of e-learni	e of a _l ing	oplication	Up to 2	0%		
			COU	RSE DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requi	rements	5							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - Ide - Exp - Giv per	er completing the course, students will be able to: Identify the characteristics of successful innovations in scientific technology Explain the significance of use of artificial intelligence in medicine Give examples of innovations in several of the most advanced hospitals which will pervade the healthcare system in the future							vill	
	Course type	Course Teaching unit Hours							ırs	
Course content Characteristics and examples of technology broken down in detail etc.)					ogy trenc ons, smar	ls in tphones,	7			
by weekly class schedule (svllabus)	L,S			Artificial intel	ligenc	e in medici	ine		7	
	L,S	Ho smai	spitals of t rt cards, mo ii	he future (Wil emory devices n medicine, In	Fi, voic 5, RFID ternet	ce recognit , Web 2.0, : 2, biomet	ion, digit open sou rics)	2. L S E L0 12 I Jp to 20% I I scientific technology n medicine vanced hospitals which wile wanced hospitals which wile ing Hour y trends in 5, smartphones, sen source code s) 7 e 7 h, digital pens, been source code s) 8 esignments 8 tor I ing I ractical training I (Other) I (Other) I (Other) I (Other) I IOO 100		
Format of instruction	X lecture X semina c exerci c on partia field y	es ars and v ises <i>line</i> in e l e-learn vork	vorkshops ntirety ing		□ inc □ mu □ lat □ wc □	dependent ultimedia poratory ork with me (other	assignmo entor)	ents		
Student responsibilities	Regular o Active pa Passwor	class atte articipat d for AA	endance ion in the t I EduHr ele	eaching proce ctronic identi	ess ty to a	ccess e-lea	arning			
Screening student work (name the	Class attendar	nce	0,5	Research			Practical	training		
proportion of ECTS credits for each	Experime work	ental		Report						
activity so that the total number of ECTS	Essay			Seminar essa	у		(0	Other)		
credits is equal to the	Tests			Oral exam			(0	Other)		
course)	Written	exam	1	Project			(0	Other)		
	Verification indicators Success Rating share (%) (points)									
evaluating student	Writter	n exam							100	
work in class and at the final exam	Iotal					100	J		100	

		RATIO OF SUCCESS AND EVALU	ATION						
	Achieved success	Criterion			Rating				
	percentage (%)								
	60-69,9	meets minimum criteria		su	fficient (2)				
	70-79,9	average success		good (3)					
	80-89,9	above average success	ve	ry good (4)					
	90-100	outstanding success		ex	cellent (5)				
Required literature		ber of s in the rary	Availability via other media						
library and via other media)	Hoyt RE: Medical Info healthcare profess Informatics Program poglavlja 9 i 21								
Optional literature (at the time of submission of study programme proposal)	Hoyt RE: Medical Inform Medical Informatics Pro	natics – A practical guide for health ogram, Pensacola, Florida, USA 2009	care pr 9 – pog	ofession lavlja 1-8	als, 3rd edition, 3, 10-20				
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality an Exam passing rate a Committee for con External evaluation 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 							
Other (as the proposer wishes to add)									

NAME OF THE COURSE		Physica	l Cultu	re II								
Code	ZSZ623				Year of stu	ıdy		1				
Course teacher	Željko K Assistan	ovačević t Profess	, PhD Sor		Credits (EC	CTS)		1,5				
Associate teachers					Type of ins (number o	struct of hou	ion rs)	L	S 8	E 14	T 28	
Status of the course	Mandat	ory			Percentage of e-learni	e of a	pplication	5	0	14	30	
			C	OUR	SE DESCRIPT							
Course enrolment requirements and entry competences required for the course	No requ	irements	5									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Upon co - Harmo - Manag	pon completion of the course students will: Harmonize and improve physical and spiritual health Manage and improve the quality of healthy living										
	Form	Format of Class unit Class he						hour				
Course content broken down in detail		T Framework program; football, handball, volleyball, 10 athletics, basketball, swimming						C				
by weekly class schedule (syllabus)	-	Г	Sp	ecial vo	program; ba lleyball, hikir	dmin ng, tal	ton, indoor ole tennis, v	football, water pol	beach o	10	C	
	-	Г		Custo	om program:	for s	tudents wit	Class hor Class hor Class hor Class hor Class hor Class hor Class hor Class hor in a solution in the second condition in the second condition is a solution in the s	C			
	-	Г		E	Elective prog	rams	for the con	npetition	8			
Format of instruction	 lectur semir exerc on partia X field v 	res nars and ises <i>line</i> in e al e-learn vork	worksh ntirety iing	ops		□ in □ m □ la □ w □	dependent ultimedia boratory ork with mo (other	assignme entor)	ents			
Student responsibilities	Regular Active p Passwor	class atte articipat d for AA	endanc ion in tl I EduHr	e. he te [·] elec	aching proce tronic identit	ss. ty for	access to e	- learnin	5			
Screening student	Class attenda	nce	1,5	F	Research			Practical	training			
proportion of ECTS credits for each	Experim work	ental		F	Report							
activity so that the total number of ECTS	Essay			s	Seminar essav	У		(C	ther)			
credits is equal to the	Tests			C	Dral exam			(C	ther)			
ECTS value of the course)	Written	exam		F	Project			(C	ther)			
Grading and evaluating student	Evaluation indica Class attendance Total				cators		Succe (poin 100 100	ess ts)	Share gra	re in overall grade (%) 100 100		
the final exam	PERFORMANCE AN					E AND GRADE RATIO						
		60-69.9	v)	mee	eets the minimum criteria		suffi	sufficient (2)				
		70-79.9		aver	rage success			good (3)				

	80-89.9 90-100	above-average success outstanding success		ver	ry good (4) cellent (5)
Required literature (available in the		Title	Num copies lib	ber of s in the rary	Availability via other media
prary and via other nedia) Optional literature (at	Mišigoj Duraković M. Zagreb;Kineziološk	tjelesna aktivnost i zdravlje. i fakultet; 1999			
Optional literature (at the time of submission of study programme proposal)					
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality Exam passing rat Committee for co External evaluation 	analysis by students and teachers e analysis ontrol of teaching reports on			
Other (as the proposer wishes to add)					

NAME OF THE COURSE		English	n for Medi	cal Laborato	ory Diagnostics	II			
Code	ZSL631			Year of stu	vbu	2.			
	Sonia Ko	ren. MA	۸.	. 50. 01 50		1.5			
Course teacher	Senior Le	ecturer	,	Credits (E	CTS)	-/-			
Associate teachers		/	,	Type of in (number o	struction of hours)	L	S 30	E	Т
Status of the course	Mandato	ory		Percentag	e of application	Up to 10)%		
	I		COU	RSE DESCRIPT					
Course enrolment requirements and entry competences required for the course	Passed E	nglish fo	or Medical I	Laboratory Di	agnostics I				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - devel - use pr - under - find, s Laborat	ter completing the course students will be able to: develop language skills of speaking, listening, reading, and writing in the field of medical la use professional terminology in the field of medical laboratory diagnostics, understand professional literature in English, ind, summarize, and present data and information in the field of medical boratory diagnostics.							
	51	S1 Introduction and Revision							2
	52	SZ A IVIICrobiology Request Form							2
	S3	Teri	ms used to	describe lab r	esults				2
	S4	Abb	reviations						2
	S5	S5 Diseases of Red Blood Cells							2
Course content	S6 Diseases of White Blood Cells								2
broken down in detail	S7	Dise	eases of Bo	ne Marrow Ce	ells				2
by weekly class	S8	Disc	orders of Bl	ood Clotting					2
schedule (syllabus)	S9	Lab	oratory Tes	sts I					2
somedure (synabus)	S10	Lab	oratory Tes	atory Tests II					2
	S11	Clin	ical Proced	ures					2
	S12	Exe	rcises						2
	S13	Rev	ision						2
	S14	Pres	sentations of	of sem <u>inar p</u> a	pers				2
	S15	Pres	sentations	of seminar pa	pers				2
Format of instruction	 lectury x semina exerci on partia field w 	es rs and v ses <i>line</i> in e l e-learr vork	vorkshops ntirety hing	_	 independent multimedia laboratory work with me (other 	assignme entor)	nts		
Student responsibilities	Regular of Active pa Password	class att articipat d for AA	endance. ion in the t I EduHr ele	eaching proce ctronic identi	ess. ty for access to e	- learning	5	_	
Screening student	Class	ass Research Practical training							
work (name the	attendance								
proportion of ECTS	Experime	ental		Report					
credits for each activity so that the	work Essav			Seminar essa	v 0.45	(0	ther)		
total number of ECTS credits is eaual to the	Tests			Oral exam	, , , , , , , , , , , , , , , , , , , ,	(0)	ther)		
					1				

ECTS value of the course)	Written exam	1,05	Project		(Other)			
Grading and evaluating student work in class and at the final exam	Written exam							
Poquirad literatura		•	Title		Number of copies in the library	Availability via other media		
(available in the	Chabner DE. The Louis: Saunde	e <i>Languag</i> rs Elsevier	e of Medicine. 8 ; 2007	8th edition. St.				
library and via other media)	Glendinning, E.H - <i>Medicine</i> . Cam (selected chapte	., Howard, bridge: Car rs)						
Optional literature (at the time of submission of study programme proposal)	Režić P., Žurić-Ha Professions, Zdra	avelka, S.: avstveno s	Introduction to I veučilište, Zagre	Basic Medical T 5, 2013.	erminology for H	lealth		
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qu Exam passin Committee External eva 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 						
Other (as the proposer wishes to add)								

NAME OF THE COURSE		Pathophysiology						
Code	ZSZ625		Year of stu	ıdy	2.			
Course teacher	Assist. Pı Šlujo, MI	rof. Anteo Bradarić- D, PhD	Credits (EC	CTS)	2			
Associate teachers	Prof. Tin MD, PhD Assoc. Pi PhD Assist. Pi MD, PhD Assist. Pi MD, PhD	a Tičinović Kurir, prof. Joško Božić, MD, rof. Marino VIlović, prof. Mladen Krnić,	Type of in: (number c	struction f hours)	S 8	E O	Т 38	
Status of the course	Essential		Percentag of e-learni					
	L	COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	No requi	No requirements						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 expl of p deso iden disc orga deso in va 	explain and interpret general pathophysiological principles, actions, causes and v of pathophysiological processes; describe and explain the general patterns of reaction of the organism to the dam identify general ways of organ and tissue insufficiency; discuss the changes that occur in disorders of the control mechanisms of individuorgan systems and the whole organism; describe and explain the clinical features associated with pathophysiological pro in various pathological conditions						ways nage; ual cesses
	L1	Disorders of energ	gy metaboli	sm			2	
	L2	Pathophysiology of	of the respir	atory system			2	
	L3	Pathophysiology of	of chromoso	mal and genetic	disorders	5	2	
	L4	Disorders of acid-l	base balanc	e			2	
	L5	Pathophysiology o	of inflamma	tion and infection	า		2	
	L6	Disorders of carbo	phydrate an	d protein metabo	olism		2	
	L7	Pathophysiology c	of endocrine	opathies			2	
Course contract	L8	Pathophysiology c	of malignan	t growth			2	
Course content	L9	Pathophysiology c	of cardiovas	cular disorders 1			2	
by weekly class	111	Pathophysiology C	of circulator				2	
schedule (syllabus)	112	Fluid and electroly	vte disordei	s			2	
	L13	Pathophysiology	of anemia				2	
	L14	Pathophysiology c	of gastroint	estinal disorders			2	
	L15	Disorders of energ	gy metaboli	sm			2	
	S1	Coagulation disord	ders				2	
	S2	Pathophysiology of	of the renal	system			3	
	S3	Repetition and int	egration				3	
	☐ independent assignments							
	🗵 semin	ars and workshops		🗆 multimedia				
Format of instruction	🗆 exerci	ses	□ laboratory					
	🗆 on	<i>line</i> in entirety	\Box work with mentor					
	🗆 partia	l e-learning		□ (other)				
	\Box field v	vork						

Student responsibilities	Regular class att Active participat Password for AA	endanco ion in tł I EduHr	e. ne teaching process. electronic identity f	or access to	o e - learni	ng.	
Screening student work (name the	Class attendance	0.2	Research		Practic	al trainin	g
proportion of ECTS credits for each	Experimental work		Report				
activity so that the total number of ECTS	Essay		Seminar essay			(Other)	
credits is equal to the ECTS value of the	Tests		Oral exam		((Other)	
course)	Written exam	1.8	Project			(Other)	
	Eva	luation	indicators	Suc (pc	ccess bints)	Share i	n overall grade (%)
	seminars (for 1	d activit 00% att	y on lectures and endance)		5		10
	Written exam		•		45		90
Grading and	Total				50		100
evaluating student work in class and at the final exam			PERFORMANCE	AND GRAD	E RATIO		
	Achieved suc	cess	Criteria				Grade
	60-69,9 meets the minimum criteria					su	fficient (2)
	70-79,9 average success						good (3)
	80-89,9		above average suc	cess		ve	ry good (4)
	90-100		exceptional succes	s		ex	cellent (5)
Required literature (available in the			Title		Num copie lib	iber of s in the rary	Availability via other media
media)	 Pathophysic S. Školska kr 	ology foi njiga Zag	r higher medical sch greb, 2006.	ools: Gamu	lin		
Optional literature (at the time of submission of study programme proposal)	 Harrison's P Split: Placeb Gamulin S, I Zagreb, 201 	rinciple: 0, 2019 (ovač Z, 8.	s of Internal Medicir Marušić M. Pathop	ne. 19. editi hysiology, V	on. 4. Croa /III. editior	atian edit n. Medicii	ion. nska naklada,
Quality assurance methods that ensure the acquisition of exit competences	- Students and le - Analysis of the - Reports of the - External evalua Control, particip	ecturers exam su Teachin ition (vis ation in	' analysis of the qua uccess rate, g Control Committe sits by the quality co TEEP).	lity of teach e, ontrol teams	ing, s of the Na	itional Ag	gency for Quality
proposer wishes to add)							

NAME OF THE COURSE	E Pathology										
Code	ZSZ626		Year of study	2.							
Course teacher	Prof.dr.so	z. Valdi Pešutić-Pisac	Credits (ECTS)	2							
	Prof.dr.se	. Šimun Anđelinović		L	S	E	Т				
Associate teachers	MDPhD ;		Type of instruction								
	Associate	es from teaching	(number of hours)	30	8						
	Mandato	rv	Percentage of application	Un to 2	0%						
Status of the course	Wandaco	, à	of e-learning	00102	070						
		COURSI	DESCRIPTION								
Course enrolment											
requirements and	Newser										
entry competences	No requi	ements									
course											
	1. To lis	t the groups of p	athological processes, to	describe	their e	tiopatho	genetic				
	mechanis	sms, to list their mos	t important morphological fe	eatures ai	nd to cor	nect the	m with				
	the elem	ents of the clinical ba	ickground.								
Learning outcomes	2. To list t	he most important p	athological entities within inc	dividual o	rgan syst	ems, to c	onnect				
expected at the level	them wi	in general teatures specific to each org	of pathological processes,	to descr	acquired	morpho					
of the course (4 to 10	individua	l clinical examples.	an system and to be able	to apply	acquiret		uge io				
learning outcomes)	3. To list	and describe individu	al methods of morphologica	al diagnos	is and th	eir clinica	al use.				
	4. To list	and describe the sigr	is of death.	U							
	5. To des	cribe the most signifi	cant features of individual st	ages of a	utopsy.						
	Formo	£	Conoral Pathology:			Ho	urc				
	teachin		num	nber							
	P		Cellular adaptation			2	2				
	Р		Cell injury and death			2					
	Р		Acute and chronic inflamatic	n		2	2				
	P,S		Reparation			1,1					
	P,S		Regeneration			1,	,1				
	P,S		Healing			1,	,1				
	P,5		Genetic disorders			1	,1 1				
	P.S		Diseases of immunity			1	.1				
Course content broken	P,S		Neoplasia			2	,2				
down in detail by			Systemic Pathology:								
weekly class schedule	Р		Cardiovascular pathology			1	1				
(syllabus)	Р		Environmentalpathology			-	1				
	Р		Lung pathology				1				
	P		Hemathopathology				1				
	Р		Gastrointestinal pathology				L				
	Р 										
	P		Kidnev pathology								
	P		Genitourinary pathology			1					
	Р		1								
	Р		Endocrine pathology			1					
	Р	Skin pathology					1				
	Р	Bone and joints pathology					1				
	Р		Periferal nerves pathology			1	l				

	Р			Scelatal m	nuscle p	oathology				1
	Р			Central nervou	us systr	em pathol	ogy			1
Format of instruction	x lectures x seminars a exercises on line partial e-l field worl	and w e in ei learn k	vorkshop ntirety iing	15	□ inde □ mul □ labo □ wor □	ependent a ltimedia oratory k with me (other)	assignme ntor	ents		
Student responsibilities	Regular clas Active partic Password fo	s atte cipati or AA	endance ion in the I EduHr e	e teaching proce electronic identit	ss y to ac	cess e-lear	rning			
Screening student work (name the	Class attendance			Research			Practical	trainin	g	
proportion of ECTS credits for each	Experimenta work	al		Report						
activity so that the total number of ECTS	Essay			Seminar essay	/		(C)ther)		
credits is equal to the ECTS value of the	Tests			Oral exam			(C)ther)	_	•
course)	Written exa	m	2,0	Project			(0)ther)		
Grading and evaluating student work in class	Verification indicators Written exam Total RATIO OF SL			CCESS A	Success (points) 50 50 50	JATION	Rating	; sha	are (%) 100 100	
and at the final exam	Achieved percentag 60- 70- 80- 90	succo ge (% -69,9 -79,9 -89,9 -100)	meets minimum criteria sufficient average success good (3) above average success very good			cient (2) od (3) good (4)			
Required literature (available in the library and via other media)	1. Jakić Raz	zumo	vvić J, Ša 2009	Title Irčević B, Seiwe	rt S. P	Patologija,	Numb copies libra	er of in the ary	A	vailability via other media
Optional literature (at the time of submission of study programme proposal)	1. 1. Damjar Zagreb, 201	SLAP, Zagreb, 2009. 1. Damjanov I, Seiwerth S,Jukić S, Nola M. Patologija; 5.izdanje. Medicinska naklada , agreb, 2018								
Quality assurance methods that ensure the acquisition of exit competences	 Teachin Exam pa Commit Externa 	ng qua assin ttee f Il eva	ality anal g rate an for contro luation	lysis by students alysis ol of teaching re	and te	achers				
Other (as the proposer wishes to add)										

NAME OF THE COURSE	Microbiology and Parasitology										
Code	ZSZ627										
Study program		Year of study	2.								
Course teacher	asst. prof. <i>Vanja Kaliterna,</i> M.D., PhD, clinical microbiology specialist	Credits (ECTS)	2. 2 L S ME LE 20 10 L L Diology and parasitology C C Cies of microorga								
Associate teachers	asst. prof. Anita Novak, M.D., PhD, clinical microbiology specialist asst. prof. Katarina Šiško Kraljević, M.D., PhD, clinical microbiology specialist asst. prof. Merica Carev, M.D., PhD, clinical microbiology specialist Associates from teaching bases	Type of instruction (number of hours)	L 20	S 10	ME	LE	T				
Status of the course	Mandatory	Percentage of application of e- learning	Up to 10% ology and parasitology of microorganisms that cause								
	COURSE	DESCRIPTION									
Objectives of the course	 To present students to infections To introduce student To present students to present students to present students to for enable students to for enable students to for present stable students to for present studentsto for present s	the biological properties of s modes of infection tran numan defend modes aga methods for treating infe o accept the principles of the methods of preventic	smittin smittin ainst inf ctious d proper on of no	g cause fections liseases and sa socomi	ed by m s s fe labo ial infec	at cause icroorgan ratory we stions	nisms ork				
Course enrolment requirements and entry competences required for the course	No requirements										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 After completing the course standard infectious diseases in transmission To use the acquired k To learn the mode of resistance of microor To recognize and app To explain and apply To explain the basics parasites To distinguish types of correct selection of ir To apply the acquired microbiological labor 	tudent will be able to: in the biological propertion humans, their pathogen anowledge on the basics of action of antimicrobial a ganisms to these agents only the basic principles of and sterilization method methods of prevention of of laboratory diagnostics of samples for microbiolo ndividual types of sample d knowledge in the proper atory	es of mi icity fac of huma gents a proper s f nosoc of path gical pr s from r transp	icroorg stors ar an defe nd the and sa omial i nogenic ocessir various port of	anisms id modi nse aga mechai fe labor nfectio c microo ng, and organi the san	that cau es of ninst infe nisms of ratory wo ns organism apply the c system nple to th	se ction ork s and s ne				

	Form of teaching			The	matic	units:			Number of student
	P1	Introdu	iction to r	nedical mici arily non-st	robiol erile c	logy. Prima	rily steril	e clinical	3
	P2	Disinfe	ction and	sterilization	n. Nos tion n	socomial inf	ections.	Control of	2
	P3	Nonspe	ecific and	specific imn	nunity	y. Humoral	and cell	ular	2
		immun	ity. Prima	ry and seco	ndary	y immune re	esponse.		
	P4	Bacteri	al infectio	ons of organ	syste	ems.			3
	S1	Collect	ion of clin	ical materia	il, trai	nsport, stor	age unti	lseeding	2
		referra	ls Metho	ds of direct	hacte		liagnosti	ns	
Course content broken	P5	Antimi	crobial dru	ugs.	buell		nagnosti		2
down in detail by weekly	S2	Bacteri	al suscept	tibility testir	ng to a	antimicrobi	al agents	5	2
class schedule (syllabus)	P6	Basic m	norpholog	ical charact	eristio	cs of fungi.	Diseases	caused by	2
		fungi. H	Hospital ir	fections ca	used l	by fungi.			
	S3	Collect	ion of clin	ical materia	l for r	mycological	diagnos	is.	2
		Transp	ort and st	orage. Labo	rator	y diagnosis	of myco	sis.	
	P7	Genera	l properti	es of parasi	tes. P	Parasites im	portant	in human	3
	54	Collect	Jgy. ing of clin	ical materia	l for r	narasitologi	cal diagr	osis	2
	54	Transp	ort and st	orage Meth	nods (of narasitol	ogical di	agnostics	2
	P8	Genera	l properti	es of the vir	ruses.	. Viruses tha	at cause	diseases	3
		in humans. Methods of virological diagnosis. Viral nosocomial							
		infectio	ons.						
	S5	Virological diagnostics (collecting of clinical material for direct						2	
		and inc	lirect diag	nosis, trans	port a	and storage	e). Virus i	solation	
	Mlectures	system	s. Serolog		lecuia	ar methous	in micro	biology.	
	Seminars and workshops								
			nonopo		□m	ultimedia			
Format of instruction:	Don line in entirety								
	⊠partial e-	learning			L W	ork with mentor			
	□field wor	□field work (other)							
	Attend class	ses ordir	narily.						
Student responsibilities	Actively par	ticipate	in teachir	ng activities.		tura un i a i al a uni			
	Own an act	ive passi	word for A	AAI @ EQUH	r elec	tronic ident	tity (for a	access to e-	learning)
Courses in a student work	Class attend	dance	0,2	Research			Practica	I training	
(name the proportion of	Experiment	al work		Report			(other)		
ECTS credits for each activity so that the total	Essay			Seminar es	ssay		(other)		
number of ECTS credits is equal to the ECTS	Tests			Oral exam			(other)		
value of the course):	W/sitton ove		1.0	Draiaat			(other)		
	written exa	Im	1,8	Project			(other)		
	 					Daufaur]
	Verificatio	n indica	tors			Perform (poin	ts)	Rating	share (%)
Grading and evaluating	Attendand	e and ac	ctivity at le	ectures and		10	,	10	0.00
student work in class	seminars f	or 100%	attendar	ice					
and at the final exam	Written ex	kam				90		90	0.00
	Total					100)	10	0.00
	1								

	RATIO OF SUCCESS AND EVALUATION							
	Achieved success	Criterion			Mark			
	60 - 70.9	meets the minimum criteria	su	fficient (2)				
	71 - 80.9	average success			good (3)			
	81 - 90.9	above-average success	ve	ry good (4)				
	91 - 100	exceptional success		ex	cellent (5)			
		Title	Numb copies i libra	er of in the iry	Availability via other media			
Required literature (available in the library and via other media)	Written materials (hand		on the website Merlin platform Course Clinical microbiology					
	Kalenić S i sur Medicinska mikrobiologija. 2. izd. Zagreb:Medicinska naklada, 2019.							
	Richter B. Medicinska parasitologija. 6. izd. Merkur A.B.D., 2002.							
	Presečki V i sur. Virologija. Zagreb: Medicinska naklada; 2002.							
Optional literature (at the time of submission of study programme proposal)	Tonkić M., Dobec M., Abram M. i sur. Jawetz,Melnick & Adelberg Medicinska mikrobiologija. Split: Placebo, 2015. Uzunović-Kamberović S, ur. Medicinska mikrobiologija. Zenica : Štamparija Fojnica, 2009.							
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 							
Other (as the proposer wishes to add)								

NAME OF THE COURSE	E	Pharma	acology						
Code	ZSZ628			Year of st	ıdy	2.			
Course teacher	Mladen Full Prof	Boban, N essor	ИD	Credits (E	CTS)	2.			
Associate teachers	Ivana Mu Professo Associat bases	udnić, As or es from	ssociate teaching	Type of in (number o	struction of hours)	L 28	S 8	E	Т
Status of the course	Mandato	ory		Percentag	e of application	Up to 20)%		
			COU	IRSE DESCRIP	TION				
Course enrolment requirements and entry competences required for the course	No requi	No requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After con - - - - -	 After completing the course students will be able to: explain the basics of pharmacology, the importance of recognising unwanted effects of drugs in the context of a competent member of the healthcare team, correct provision of information to the patient and possibilities of timely intervention explain the basic pharmacological concepts, mechanisms of action of drugs, pharmacological response factors, and the particularities of application of drugs in individual organ disorders differentiate between the desired and harmful effects of drugs, and understand the basic pharmacokinetics and pharmacodynamics of drugs most commonly used in their field of work identify pharmacokinetics and pharmacodynamics of major drug categories 							
Course content broken down in detail by weekly class schedule (syllabus)	Type o instruct L, E L, E L, E L, E L, E L, E	of cion	effects and interactions Subject General pharmacology Drug research and clinical trials Antimicrobial drugs Allergic reactions Drug toxicity Analgesics and the pharmacology of pain Application of drugs in individual organ disorders (cardiovascular, digestive, central and autonomous nervous system and kidneys);						Per of 175 1 1 1 1 1 1 1 1 1 1 1 1 1
Format of instruction	X lecture X semina exerci on partia	es ars and v ises <i>line</i> in e il e-learn work	vorkshops ntirety ing		 independent assignments multimedia laboratory work with mentor (other) 				
Student responsibilities	Regular Active pa Passwor	class atte articipat d for AA	endance ion in the t I EduHr ele	teaching proce	ess ty to access e-lea	arning			
Screening student work (name the proportion of ECTS credits for each	Class attendar Experime work	nce ental	0,2	Research Report		Practical	training		

activity so that the	Essay		Seminar essay			(Other)		
credits is equal to the	Tests		Oral exam			(Other)			
ECTS value of the course)	Written exam	1,8	Project			(Other)		
	Verification ind	icators			Success (points)		Rating	share (%)	1
	Class attendand	ce			5			10	
	Written exam				45			90	
Creding and	Total				50			100	
evaluating student			RATIO OF SUCCE	ESS A	AND EVALL	JATION			
the final exam	Achieved succe percentage (%)	SS	Criterion					Rating	
	60-69,9		meets minimum criteria				sufficient (2)		
	70-79,9		average success				good (3)		
	80-89,9		above average suc	cess	5		ver	ry good (4)	
	00 100		a utata a dina a una a	~~			01	collopt (E)	
	90-100		outstanding succe	55			ex	cenent (5)	
Required literature (available in the	90-100		Title	55		Num copies libi	ber of in the rary	Availability via other media	
Required literature (available in the library and via other media)	Abstracts of I preparation)	ectures	Title and exercises,	(tex	ktbook in	Num copies lib	ber of s in the rary	Availability via other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study	Abstracts of I preparation) Bulat, M., Geber naklada, 2001. Farmakologija, R	ectures , J., Lack ang HP,	Title and exercises, ović, Z. Medicinska Dale MM,Ritter JM	(tex farr	ktbook in makologija pore PK (ur	Num copies libr . Zagreb	ber of s in the rary o, Medicin Golden N	Availability via other media nska Marketing,	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal)	Abstracts of I preparation) Bulat, M., Geber naklada, 2001. Farmakologija, R Zagreb, 2006.	ectures , J., Lack ang HP,	Title and exercises, ović, Z. Medicinska Dale MM,Ritter JM	(tex a farr , Mc	ktbook in makologija bore PK (ur rednici) M	Num copies libe . Zagreb ednici),	ber of s in the rary , Medicin Golden N	Availability via other media	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance	Abstracts of I preparation) Bulat, M., Geber naklada, 2001. Farmakologija, R Zagreb, 2006. Pharmacology in • Teaching qu	ectures , J., Lack ang HP, Nursing ality ana	Title and exercises, ović, Z. Medicinska Dale MM,Ritter JM g, McKerny&Salern alysis by students a	(tex a farr , Mc o (ui nd to	ktbook in makologija bore PK (ur rednici), M eachers	Num copies lib . Zagreb ednici), osby, St	ber of s in the rary , Medicin Golden N Louis, 20	Availability via other media nska Marketing, 003.	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure	Abstracts of I preparation) Bulat, M., Geber naklada, 2001. Farmakologija, R Zagreb, 2006. Pharmacology in Teaching qu Exam passin	ectures , J., Lack ang HP, <u>Nursing</u> ality ana g rate a	Title and exercises, ović, Z. Medicinska Dale MM,Ritter JM g, McKerny&Salern alysis by students a nalysis	(tex a farr , Mc o (un nd to	ktbook in makologija bore PK (ur rednici), M eachers	Num copies lib . Zagreb ednici), osby, St	ber of s in the rary , Medicin Golden N Louis, 20	Availability via other media nska Marketing, 003.	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit	Abstracts of I preparation) Bulat, M., Geber naklada, 2001. Farmakologija, R Zagreb, 2006. Pharmacology in Teaching qu Exam passin Committee	ectures , J., Lack ang HP, <u>Nursing</u> ality ana g rate an for contr	Title and exercises, ović, Z. Medicinska Dale MM,Ritter JM g, McKerny&Salern alysis by students a nalysis rol of teaching repo	(tex a farr , Mc o (ui nd to	ktbook in makologija pore PK (ur <u>rednici), M</u> eachers	Num copies libu . Zagreb ednici), osby, St	ber of s in the rary o, Medicin Golden M Louis, 20	Availability via other media nska Marketing, 003.	
Required literature (available in the library and via other media) Optional literature (at the time of submission of study programme proposal) Quality assurance methods that ensure the acquisition of exit competences	Abstracts of I preparation) Bulat, M., Geber naklada, 2001. Farmakologija, R Zagreb, 2006. Pharmacology in Teaching qu Exam passin Committee External eva	ectures , J., Lack ang HP, <u>Nursing</u> ality ana g rate an for contri luation	Title and exercises, ović, Z. Medicinska Dale MM,Ritter JM g, McKerny&Salern alysis by students a nalysis rol of teaching repo	(tex a farr , Mc o (ur nd to	ktbook in makologija pore PK (ur rednici), M eachers	Num copies lib . Zagreb ednici), osby, St	ber of s in the rary , Medicin Golden N Louis, 20	Availability via other media nska Marketing, 003.	

NAME OF THE COURSE	E OF THE COURSE Basics of Haematology and Coagulation							
Code	ZSL606		Year of study	2				
Course teacher	Assistan Čečuk, P	t professor; Esma hD	Credits (ECTS)	5				
Associate teachers	Davor Ga Armanda MD; Leic Spec. in Biochem Univ. Spe Biochem Bilopavlo Medical	alušiĆ, MD, Višnja a, MD; Slavica Dajak, la Tandara, Univ. Medical istry; Branka Krešić ec. in Medical istry; Nada ović, , Univ. Spec. in Biochemistry	Type of instruction (number of hours)	L 30	S 20	E 35	Т	
Status of the course	Manada	tory	Percentage of application of e-learning	10%	•			
	<u> </u>	COURS	E DESCRIPTION					
Course enrolment requirements and entry competences required for the course	No requi	rements.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	Arter con	 completing the course, students will be able to: Explain the structure of normal erythropoiesis; Explain development of cell population of erythrocytes, granulocytes and lymphocytes; Explain cytological characteristics of peripheral blood cells in physiological conditions and hematologic disorders; Explain etiopathogenesis of anaemia, benign and malignant diseases of granulocytes and lymphocytes; Link quantitative and qualitative changes in platelets with haemostasis; Explain the process of blood coagulation and fibrinolytic processes; Use the acquired knowledge of haematology and haemostasis in laboratory 						
Course content broken down in detail by weekly class schedule (syllabus)	L L L L L L L L L L L S S S S S S S S S	Normal erythropoo Anaemia etiopath Sideropenic anaer Qualitative and qu Monocyte, granol Leukemia and lim Blood clotting and HLA system in hae Flow cytometry – Imunohaematolog Trombophilia Alogenic stem cell Autologous stem o Coagulation labor Haemophilia and Coagulation tests Immunodeficienci Haemostasis disor Anaemia diagnost Emergency coagu Blood transfusion	the acquired knowledge of haematology and haemostasis in labora gnostics. Normal erythropoesis structure Anaemia etiopathogenesis Sideropenic anaemia and iron metabolism Qualitative and quantitative trombocyte disorders Monocyte, granolcyte and macrophage disorders Leukemia and limphomas Blood clotting and fibrinolysis HLA system in haematology Flow cytometry – limphocyte imunophenotyping Imunohaematology in transfusion medicine Trombophilia Alogenic stem cell transplantation Coagulation laboratory tests and their interpertation Haemophilia and other haemostasis disorders Coagulation tests – case reports and interpretation Immunodeficiencies Haemostasis disorders in clinical practice Anaemia diagnostics and non-immune haemolitic anaemias Leukemia diagnostics Emergency coagulation diagnostics					

E Department of Biochemistry and Laboratory Medicine - Fir E Department of Biochemistry and Laboratory Medicine - Kri E Tissue Typing Laboratory E Clinic for Children Diseases	ule 3 žine 8							
E Department of Biochemistry and Laboratory Medicine - Kri E Tissue Typing Laboratory E Clinic for Children Diseases	žine 8							
E Tissue Typing Laboratory E Clinic for Children Diseases								
E Clinic for Children Diseases	9							
	15							
Format of instruction Image: Construction Image: Construction Image: Construction Image: Constreaction Image: Constreactio	S							
Regular class attendance								
Student Active participation in the teaching process responsibilities Password for AAI EduHr electronic identity to access e-learning								
Screening student Class 0.22 Posparch Practical trai	ning							
work (name the attendance 0,55 Research Practical tra	ning							
proportion of ECTSExperimental work0,2Report								
activity so that the total number of ECTS Essay Seminar essay 0,33 (Other	r)							
credits is equal to the ECTS value of theTests0,13Oral exam(Other	r)							
course) Written exam 4 Project (Other	r)							
Achieved success Grading criteria percentage (%)	Grade							
65-74 meets minimum criteria suff	icient (2)							
75-82 average success goo	d (3)							
83-92 above average success very	/ good (4)							
	RATIO OF SUCCESS AND EVALUATION							
Grading and								
evaluating student work in class and at the final exam	ance Share in grade (%) ts)							
Class attendance and activity 5 6,67	7							
Seminar essay 5 6,67	6,67							
Experimental work 3 4								
Essay 2 2,67	2,67							
Written exam 60 80								
In total 75 100								
Title Copies in the library	f Availability via other media							
Required literature (available in theElizabeta Topić , Dragan Primorac i Stipan Janković i suradnici ; Medicinsko- biokemijska dijagnostika u								
library and via other kliničkoj praksi, Medicinska Naklada , Zagreb, 2004								
media) Boris Labar , Erik Hauptman i suradnici, Hematologija; Školska knjiga 2007								
 Optional literature (at the time of submission of study Čulić Srđana, Nakić Melita, Aurer Igor. Sideropenična anemija, naklada, Zagreb 2006. Andreis I, Batinić D, Čulo F, Grčević D, Marušić M, Taradi M, Vi 	Medicinska šnjić D. Imunologija.							
programme proposal) Medicinska naklada, Zagreb, 2004, VI. izdanje								
Quality assurance• Teaching quality analysis by students and teachersmethods that ensure• Exam passing rate analysis								

the acquisition of exit competences	Committee for control of teaching reportsExternal evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE	JRSE Physical Methods in MLD							
Code	ZSL607		Year of study	2.				
Course teacher	Daniela Šu Assistant p	ipe-Domić, PhD, professor	Credits (ECTS)	3.	3.			
Associate teachers	Leida Tanc Assistant p mag. Lada Specialist i Medicine (Ivana Fran Teaching a	dara, PhD, professor Stanišić, European in Laboratory (EuSpLM) iić, prof., assistant	Type of instruction (number of hours)	L S 15 10	Е Т 30			
Status of the course	Mandator	У	Percentage of application	Till 10%				
			of e-learning					
		COURS	E DESCRIPTION					
Course enrolment requirements and entry competences required for the course	No require	ements	students will be able to:					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	- E tr - E - E - E - E - E - E - E - E - E - E	 After completing the course, students will be able to: Explain and perform pre-analytical phase (collection, handling, processing, transportation) Explain and apply the laws of light absorption in spectrophotometric methods Explain and manage the optical measurement methods of turbidity of colloida systems Explain, manage and perform method of determining the hydrogen io concentration, <i>direct</i> potentiometry Explain, relate and manage the principles of refractometry Explain, relate and manage the principles of cryoscopy, colligative properties Explain, relate and manage the principles of electrophoretic and chromatographic techniques Explain, relate and implement the preparation of calibration lines in the analytical procedure 						
Course content broken down in detail by weekly class schedule (syllabus)	L,S,E L,S,E L,S,E L,S,E L,S,E L,S,E	2,1,4 2,2,5 1,2,4 3,1,5 3,2,6 4,2,6						

Format of instruction	x lecturesx independenx seminars and workshopsImultimediax exercisesImultimediaImultimediax laboratoryImultimediaImultimediax partial e-learningImultimediaImultimediaImultimediaImultimediaImultimediax partial e-learningImultimedia </td <td>x independent a multimedia x laboratory work with me</td> <td>assignments entor)</td> <td></td>			x independent a multimedia x laboratory work with me	assignments entor)	
Student responsibilities	Regular class att Active participat Password for AA	endance ion in the I EduHr ele	teaching proce ectronic identit	ess ty to access e-lea	arning	
Screening student work (name the	Class attendance	0,15	Research		Practical training	g 0,45
proportion of ECTS credits for each	Experimental work		Report			
activity so that the total number of ECTS	Essay		Seminar essa	У	(Other)	
credits is equal to the	Tests	0,9	Oral exam		(Other)	
course)	Written exam	1,5	Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam			Ś		
	Title			Number of copies in the library	Availability via other media	
	P. W. Atkins, J. do edition, 2017, P. W. Atkins, J. d Sciences, 2. izda	e Paula, J. H Oxford U e Paula Ph nje, 2010,				
Required literature (available in the	P. W. Atkins, J. de Paula Physical Chemistry, 10. izdanje, 2014, Oxford University Press. C. A. Trapp, M. P. Cady, C. Giunta Students' Solutions					
library and via other media)	Manual To Accompany Atkins' Physical Chemistry, 9. izdanje, 2011, Oxford University Press.					
	R. K. Murray i sur.: Harperova ilustrirana biokemija, prijevod 28th izdanja; Medicinska naklada, Zagreb, 2011.					
	A. Stavljenić Ruk Fizikalne osnove	avina i sur i klinički a	. u: S. Janković spekti medicin	, D. Eterović ske		
	dijagnostike, Zagreb, Medicinska naklada, 2002. B. Štraus, A. Stavljenić Rukavina, F. Plavšić Analitičke tehnike u kliničkom laboratoriju, Medicinska naklada,					
Optional literature (at the time of submission of study programme proposal)	C.A. Burtis, E.R. <i>i</i> molecular Diagn	Aschwood, ostics. 8. iz	D.E. Burns, ur danje. St. Luis	. Tietz Textbook : Elsevier Saunde	of Clinical Chemi ers, 2018, odabra	stry and na poglavlja
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qu Exam passin Committee External evaluation 	ality analy og rate ana for control	sis by students lysis of teaching re	and teachers		
Other (as the proposer wishes to add)						

NAME OF THE COURSE	E Biochemistry II							
Code	ZSL608		Year of study	2				
Course teacher	Prof. Ire PhD	na Drmić Hofman,	Credits (ECTS)	6	6			
Associate teachers	Assist. P Domić, F Assist. P Bilopavle Assist. P PhD, MS Lada Sta Lab. Me Ivana Fra	rof. Daniela Šupe PhD, MSc rof. Nada ović, PhD, MSc rof. Sendi Kuret, ic nišić, MSc Biochem. d. anić, MSc	Type of instruction (number of hours)	L 40	S 20	Е 20	T	
Status of the course	Mandate	ory	Percentage of application of e-learning	Up to 10)%			
		COURS	E DESCRIPTION					
Course enrolment requirements and entry competences required for the	No requ	irements		X				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 explain levels in explain carbohy describ and met define and prof explain clarify i and sign define person indicat paramet perforr spectrop 	explain the biochemical mechanisms for maintaining acid-base balance and blood sugar evels in the human body explain the structure and function of the most important biochemical compounds: arbohydrates, proteins and fats describe the connection between energy production and the function of individual organs and metabolic pathways in the human body define the most important metabolic pathways in the metabolism of carbohydrates, lipids and proteins and clarify the way of their regulation explain the functions and method of synthesis of macromolecules (DNA and RNA) clarify the connection between the structure of membranes with the action of hormones and signal transmission define nutritional needs in nutrition and relate them with the metabolism of a healthy person indicate the most important laboratory methods for determining important diagnostic parameters perform basic methods of analysis in laboratory diagnostics (acid-base status,						
Course content	Teaching Methods Topic L1 Introduction to metabolism: biochemistry and medicine L2 Acid-base balance L3 Amino acids and peptides. Determination of primary protein structure					No stud ho	o. of dent <u>ours</u> 1 1 1 2	
broken down in detail by weekly class schedule (syllabus)	L5	hemoglobin; co Enzymes: mecl	hanism of action, kinetics an	d regulat	ion of		- 1	
	L6	Bioenergetics:	the role of ATP and biologic	al oxidati	on		1	
	 L7	Respiratory ch	ain and oxidative phosphory	lation			2	
	L8	Physiologically	significant carbohydrates				1	
	L9	Physiologically	significant lipids				1	
	L10	Review of met	abolism and metabolic fuels	reserves			1	
	L11	L11 Glycolysis and oxidation of pyruvate 2						

113 Glycogen metabolism 1 114 Gluconcegenesis and blood glucose regulation 2 115 Pentose phosphate pathway and other hexose metabolism 1 116 Fatty acid oxidation: ketogenesis 2 117 Biosynthesis of fatty acids and elicosanoids 1 118 Biosynthesis of fatty acids and elicosanoids 1 119 Lipid transfer and storage 2 120 Cholesterol synthesis, transport and excretion 2 121 Biosynthesis of fatty acids and elicosanoids 1 122 Catabolism of protein and nitrogen and carbon chain amino acids 1 123 Porphyrins and bile dyes 1 124 Metabolism of purines and pyrimidines 1 125 Structure, function and replication of macromolecules. 2 Protein synthesis 7 1 125 Mermoras: structure and function 1 127 Diversity of the endocrine system 1 128 Horrmone aciton and signal transduction 1 129 Nutrition, digestion, absorption, Witamins and minetals 2 51/E1 Acid-base balance 2/3 52/E2 Determination of saliva pt 1/3 54/E4 Alkaline phosphatase: determinatio		L12 Citric acid cycle: acetyl coenzyme A catabolism						
1.14 Gluconegenesis and blood glucose regulation 2 1.15 Pentose phosphate pathway and other hexose metabolism 1 pathways 1 1.16 Fatty acid oxidation: ketogenesis 2 1.17 Biosynthesis of fatty acids and elicosanoids 1 1.18 Biosynthesis of fatty acids and elicosanoids 1 1.18 Biosynthesis of fatty acids and elicosanoids 1 1.19 Lipid transfer and storage 2 1.20 Cholesterol synthesis, transport and excretion 2 1.21 Biosynthesis of non-essential amino acids 1 1.22 Catabolism of protien and nitrogen and carbon chain amino 1 1.23 Porphyrins and bile dyes 1 1.24 Metabolism of purines and pyrimdines 1 1.25 Structure, function and replication of macromolecules. 2 1.26 Membranes: structure and function 1 1.27 Diversity of the endocrine system 1 1.28 Horrino, digestion, absorption, Vitamins and minerals 2 1.30 Integration of metabolism 2 2 2/21 Determination of saliva pit 1/3 53/E1 Acid-base balance 2/3 53/E2 Determination of full cytos		L13	Glycogen metabolism		1			
Iso Pertose phosphate pathway and other hexose metabolism pathways 1 Isosynthesis of fatty acids and elicosanoids 1 Isosynthesis of non-essential amino acids 1 L21 Biosynthesis of non-essential amino acids 1 L22 Catabolism of purches and nitrogen and carbon chain amino acids 1 L23 Porphyrins and bile dyes 1 L25 Structure, function and replication of macromolecules. Protein synthesis 2 Protein synthesis 1 1 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L28 Hormone action and signal transduction 1 L29 Nutrition, digestion, absorption, Vitamins and minerals 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of saliva pH 1/3 S3/E3 Determination of saliva pH 1/3 S4/E4 Alkaline phosphatase: determination of K _w and v _{ms} in the presence of inhibitors S5/E5 Determination of nemoglobin HbA1c by ion exchange 1/3 S4/E4 Determination of n		L14	Gluconeogenesis and bloo	od glucose regulation	2			
Interval Image: second secon		L15	Pentose phosphate pathv	vay and other hexose metabolism	1			
116 Fatty acid oxidation: ketogenesis 2 117 Biosynthesis of fatty acids and eicosanolds 1 118 Biosynthesis of fatty acids and eicosanolds 1 119 Lipid transfer and storage 2 120 Cholesterol synthesis, transport and excretion 2 121 Biosynthesis of non-essential annino acids 1 122 Catabolism of protein and nitrogen and carbon chain amino acids 1 123 Porphyrins and blie dyes 1 124 Metabolism of purines and pyrimidines 1 125 Structure, function and replication of macromolecules. 2 Protein synthesis Tructure, and function 1 125 Brutino, digestion, absorption, Vitamins and minerals 2 130 Integration of metabolism 2/3 52/E2 Determination of salivary anylase activity 1/3 53/E4 Acid-base balance 2/3 53/E5 Determination of ion and serum irno binding capacity 1/3 54/E4 Alkalinis be balance 1/3 55/E5 Determination of ion and serum irno binding capacity 1/3 56/E6 betermination of salivary ortisol concentration 1/3 51/E11 Determination of origited and unconjugated serum birrubin <t< td=""><td></td><td></td><td>pathways</td><td>-</td><td></td></t<>			pathways	-				
L17 Biosynthesis of fatty acids and eicosanoids 1 L18 Biosynthesis of fatty acids and eicosanoids 1 L19 Lipid transfer and storage 2 L20 Cholesterol synthesis, transport and excretion 2 L21 Biosynthesis of non-essential amino acids 1 L22 Catabolism of protein and nitrogen and carbon chain amino acids 1 L23 Porphyrins and bile dyes 1 L24 Metabolism of purines and pyrimidines 1 L25 Structure, function and replication of matromolecules. 2 Protein synthesis 1 1 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L28 Hormone action and signal transduction 1 L29 Nutrition, digestion, absorption; Vitamins and minerals 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of salivay amylase activity 1/3 S3/Z10 Determination of full-sholistors		L16	Fatty acid oxidation: keto	genesis	2			
118 Biosynthesis of fatty acids and eicosanoids 1 119 Lipid transfer and storage 2 120 Cholesterol synthesis, transport and excretion 2 121 Biosynthesis of non-essential amino acids 1 122 Catabolism of potein and nitrogen and carbon chain amino acids 1 123 Porphyrins and bile dyes 1 124 Metabolism of purines and pyrimidines 1 125 Structure, function and replication of macromolecules. 2 Protein synthesis - 1 125 Membranes: structure and function 1 127 Diversity of the endocrine system 1 128 Hormone action and signal transduction 1 129 Nutrition, digestion, absorption; Vitamins and minerals 2 51/E1 Acid-base balance 2/3 52/E2 Determination of saliva pti 1/3 53/E3 Determination of saliva pti 1/3 54/E4 Alkaline phosphatase: determination of fw. and vmas in the presence of inhibitors 1/3 55/E5 Determination of hemoglobin HbA1c by ion exchange 1/3 50/E6 <td></td> <td>L17</td> <td>Biosynthesis of fatty acids</td> <td>and eicosanoids</td> <td>1</td>		L17	Biosynthesis of fatty acids	and eicosanoids	1			
L19 Lipid transfer and storage 2 L20 Cholesterol synthesis, transport and excretion 2 L21 Biosynthesis of non-essential amino acids 1 L22 Catabolism of protein and nitrogen and carbon chain amino acids 1 L23 Porphyrins and bile dyes 1 L24 Metabolism of purines and pyrimidines 1 L25 Structure, function and replication of macromolecules. 2 Protein synthesis 2 2 Protein synthesis 1 1 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L27 Nutrition, digestion, absorption; Vitamins and minerals 2 L30 Integration of salivary amylase activity 1/3 S3/E3 Determination of salivary amylase activity 1/3 S3/E4 Alkaline phosphatase: determination of Km and vmax in the presence of inhibitors 1/3 S3/E5 Determination of HDL-cholesterol 1/3 S8/E6 Determination of HDL-cholesterol 1/3 S8/E6 Determination of creatinine clearance in 24-hour urine 1/3		L18	Biosynthesis of fatty acids	and eicosanoids	1			
L 20 Cholesterol synthesis, transport and excretion 2 L 21 Biosynthesis of non-essential amino acids 1 L 22 Catabolism of protein and nitrogen and carbon chain amino acids 1 L 23 Porphyrins and bile dyes 1 L 24 Metabolism of purines and pyrimidines 1 L 25 Structure, function and replication of macromolecules. 2 Protein synthesis 1 1 L 26 Membranes: structure and function 1 L 27 Diversity of the endocrine system 1 L 28 Hormone action and signal transduction 1 L 29 Nutrition, digestion, absorption; Vitamins and minerals 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of salivary mylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and Vma in the presence of inhibitors 1/3 S5/E5 Determination of IDL-cholesterol 1/3 S6/E6 Determination of physical, chemical properties and pathological components of urine 1/3 S1/E11 Determination of physical, chemical properties and pathological components of urine 1/3 <td< td=""><td></td><td>L 19</td><td>Lipid transfer and storage</td><td></td><td>2</td></td<>		L 19	Lipid transfer and storage		2			
L21 Biosynthesis of non-essential amino acids 1 L22 Catabolism of protein and nitrogen and carbon chain amino acids 1 L23 Porphyrins and bile dyes 1 L24 Metabolism of purines and pyrimidines 1 L25 Structure, function and replication of macromolecules. 2 Protein synthesis 1 1 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L28 Hormone action and signal transduction 1 L29 Nutrotion, digestion, absorption; Vitamin's and minerals 2 L30 Integration of saliva pH 1/3 S3/E3 Determination of saliva pH 1/3 S3/E3 Determination of saliva pH 1/3 S3/E3 Determination of hemoglobin HbA1c by ion exchange 1/3 S5/E5 Determination of HDL-cholesterol 1/3 S6/E6 Determination of rol-cholesterol 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S10/E10 Determination of conjugated and unconjuga		L 20	Cholesterol synthesis, tra	nsport and excretion	2			
L 22 Catabolism of protein and nitrogen and carbon chain amino 1 acids Porphyrins and bile dyes 1 L 23 Porphyrins and bile dyes 1 L 24 Metabolism of purines and pyrimidines 1 L 25 Structure, function and replication of macromolecules. 2 Protein synthesis 1 1 L 26 Membranes: structure and function 1 L 27 Diversity of the endocrine system 1 L 28 Hormone action and signal transduction 1 L 29 Nutrition, digestion, absorption; Vitamins and minerals 2 Sil/E1 Acid-base balance 2/3 Sil/E2 Determination of saliva pt H 1/3 Sil/E3 Determination of saliva pt H 1/3 Sil/E4 Atkaline phosphatase: determination of waw in the presence of inhibitors 1/3 Sil/E5 Determination of Hol2-cholesterol 1/3 Sil/E6 Determination of ron and serum iron binding capacity 1/3 Sil/E1 Nucleic acid electrophoresis 1/3 Sil/E10 Nucleic acid electrophoresis 1/3 Sil/E11 Determi		L 21	Biosynthesis of non-esser	ntial amino acids	1			
acids 1 L23 Porphyrins and bile dyes 1 L24 Metabolism of purines and pyrimidines 1 L25 Structure, function and replication of macromolecules. 2 Protein synthesis 1 1 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L28 Hormone action and signal transduction 1 L29 Nutrition, digestion, absorption', Vitamin's and minerals 2 L30 Integration of metabolism 2 S3/E3 Determination of saliva pH 1/3 S3/E3 Determination of saliva pH 1/3 S4/E4 Alkaline phosphatase: determination of Km and vmax in the presence of inhibitors 1/3 S5/E5 Determination of hemoglobin HbA1c by ion exchange 1/3 S6/E6 Determination of Inon and serum iron binding capacity 1/3 S8/E8 Determination of salivary corticol concentration 2/3 S10/E10 Nucleic acid electrophoresis 1/3 S10/E12 Determination of salivary corticol concentration 2/3 S12/E12 Determination of f		L 22	Catabolism of protein and	d nitrogen and carbon chain amino	1			
1.23 Porphyrins and bile dyes 1 1.24 Metabolism of purines and pyrimidines 1 1.25 Structure, function and replication of macromolecules. 2 Protein synthesis 1 1 1.26 Membranes: structure and function 1 1.27 Diversity of the endocrine system 1 1.28 Hormone action and signal transduction 1 1.29 Nutrition, digestion, absorption; Vitamins and minerals 2 2.30 Integration of metabolism 2 51/E1 Acid-base balance 2/3 52/E2 Determination of saliva pH 1/3 53/E3 Determination of salivary anylase activity 1/3 54/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 55/E5 Determination of hold glucose concentration 1/3 56/E6 Determination of salivary anylase activity 1/3 58/E8 Determination of salivary corticol concentration 1/3 510/E10 Nucleic acid electrophoresis 1/3 510/E10 Nucleic acid electrophoresis 1/3 510/E10 <t< td=""><td></td><td></td><td>acids</td><td></td><td></td></t<>			acids					
L24 Metabolism of purines and pyrimidines 1 L25 Structure, function and replication of macromolecules, Protein synthesis 2 L26 Membranes: structure and function 1 L27 Diversity of the endocrine system 1 L28 Hormone action and signal transduction 1 L29 Nutrition, digestion, absorption; Vitamins and minerals 2 L30 Integration of saliva ptl 1/3 S2/E2 Determination of saliva ptl 1/3 S3/E3 Determination of salivary amylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 S5/E5 Determination of HDL-cholesterol 1/3 S6/E6 Determination of HDL-cholesterol 1/3 S8/E8 Determination of solivary cortisol concentration 2/3 S10/E10 Nucleic acid electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of physical, chemical properties and pathological components of urine 2/3 S14/E14 <td></td> <td>L 23</td> <td>Porphyrins and bile dyes</td> <td></td> <td>1</td>		L 23	Porphyrins and bile dyes		1			
L 25 Structure, function and replication of macromolecules. Protein synthesis 2 L 26 Membranes: structure and function 1 L 27 Diversity of the endocrine system 1 L 28 Hormone action and signal transduction 1 L 29 Nutrition, digestion, absorption; Vitamins and minerals 2 SJ/E1 Acid-base balance 2/3 SJ/E1 Acid-base balance 2/3 SJ/E1 Acid-base balance 2/3 SJ/E1 Acid-base balance 2/3 SJ/E2 Determination of salivary anylase activity 1/3 SJ/E3 Determination of salivary anylase activity 1/3 SJ/E3 Determination of baload glucose concentration 1/3 SJ/E3 Determination of baload glucose concentration 1/3 S5/E5 Determination of HDL-cholesterol 1/3 SS/E8 Determination of ron and serum iron binding capacity 1/3 S1/E1 Determination of salivary arxitsic concentration 2/3 S1/E1 Nucleic acid electrophoresis 1/3 S1/E1 Determination of ron and serum iron binding capacity 1/3		L 24	Metabolism of purines an	d pyrimidines	1			
Protein synthesis		L 25	Structure, function and re	plication of macromolecules.	2			
L 26 Membranes: structure and function 1 L 27 Diversity of the endocrine system 1 L 28 Hormone action and signal transduction 1 L 29 Nutrition, digestion, absorption; Vitamins and minerals 2 L 30 Integration of metabolism 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of salivary amylase activity 1/3 S3/E3 Determination of salivary amylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 S5/E5 Determination of hemoglabin HbA1c by ion exchange chromatography 1/3 S6/E6 Determination of hemoglabin HbA1c by ion exchange chromatography 1/3 S7/E7 Determination of non and serum iron binding capacity 1/3 S8/E8 Determination of salivary cortisol concentration 2/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of creatinine clearance in 24			Protein synthesis					
L 27 Diversity of the endocrine system 1 L 28 Hormone action and signal transduction 1 L 29 Nutrition, digestion, absorption; Vitamins and minerals 2 L 30 Integration of metabolism 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of saliva pH 1/3 S3/E3 Determination of saliva pH 1/3 S4/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 S5/E5 Determination of blood glucose concentration 1/3 S6/E6 Determination of HDL-cholesterol 1/3 S8/E8 Determination of Iron and serum iron binding capacity 1/3 S9/F9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of primary hemostasis parameters 2/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 1/3		L 26	Membranes: structure an	d function	1			
128 Hormone action and signal transduction 1 129 Nutrition, digestion, absorption, Vitamins and minerals 2 130 Integration of metabolism 2 51/E1 Acid-base balance 2/3 52/E2 Determination of salivary amylase activity 1/3 53/E1 Acid-base balance 2/3 52/E2 Determination of salivary amylase activity 1/3 53/E3 Determination of salivary amylase activity 1/3 53/E5 Determination of blood glucose concentration 1/3 55/E5 Determination of hemoglobin HbA1c by ion exchange 1/3 chromatography 1/3 56/E6 S7/E7 Determination of HDL-cholesterol 1/3 58/E8 Determination of fall-cholesterol 1/3 51/E11 Determination of fallwary cortisol concentration 2/3 51/E12 Determination of physical, chemical properties and pathological components of urine 1/3 513/E13 Determination of primary hemostasis parameters 2/3 514/E14 Determination of primary hemostasis parameters 2/3 516 Specificitites of samples in the biochemical laborator		L 27	Diversity of the endocrine	e system	1			
L 29 Nutrition, digestion, absorption; Vitamins and minerals 2 L 30 Integration of metabolism 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of saliva pH 1/3 S3/E3 Determination of salivary anylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and vmas in the presence of inhibitors 1/3 S5/E5 Determination of blood glucose concentration 1/3 S6/E6 Determination of HDL-cholesterol 1/3 S8/E8 Determination of ron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of conjugated and unconjugated serum bilirubin 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction I/me in entirety independent assignments 2 D and ine in entirety independent assignments independent assignments 1		L 28	Hormone action and signa	al transduction	1			
L 30 Integration of metabolism 2 S1/E1 Acid-base balance 2/3 S2/E2 Determination of salivary amylase activity 1/3 S3/E3 Determination of salivary amylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 S5/E5 Determination of blood glucose concentration 1/3 S6/E6 Determination of HDL-cholesterol 1/3 S6/E6 Determination of HDL-cholesterol 1/3 S7/E7 Determination of Iron and serum iron binding capacity 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of croatinine clearance in 24-hour urine 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 1/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 1/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 1/4 Ventures <td< td=""><td></td><td>L 29</td><td>Nutrition, digestion, abso</td><td>rption; Vitamins and minerals</td><td>2</td></td<>		L 29	Nutrition, digestion, abso	rption; Vitamins and minerals	2			
S1/E1 Acid-base balance 2/3 S2/E2 Determination of salivary amylase activity 1/3 S3/E3 Determination of salivary amylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 S5/E5 Determination of blod glucose concentration 1/3 S6/E6 Determination of HDL-cholesterol 1/3 S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of and serum iron binding capacity 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of conjugated and unconjugated serum 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 x entures x seminars and workshops Independent assignments Independent assignments Independent assignments Independent assignments S16 Specificities of samples in the biochemical laboratory and possible sources of interference Independent assignments Student Regular class att		L 30	Integration of metabolism					
S2/E2 Determination of salivary anylase activity 1/3 S3/E3 Determination of salivary anylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and vmax in the presence of inhibitors 1/3 S5/E5 Determination of blood glucose concentration 1/3 S6/E6 Determination of hemoglobin HbA1c by ion exchange chromatography 1/3 S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of craitine clearance in 24-hour urine 1/3 S13/E33 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction inine in entirety Independent assignments 1 gradial e-learning independent assignments 1 1 gradial e-learning idaboratory work with mentor </td <td></td> <td>S1/E1</td> <td>2/3</td>		S1/E1	2/3					
S3/E3 Determination of salivary anylase activity 1/3 S4/E4 Alkaline phosphatase: determination of Km and vmax in the presence of inhibitors 1/3 S5/E5 Determination of blood glucose concentration 1/3 S6/E6 Determination of hemoglobin HbA1c by ion exchange chromatography 1/3 S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S10/E12 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of primary hemostasis parameters 2/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2/3 S16 Specificities of samples in the biochemical assignments 1/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 1/3 S15/E15 Determination of primary hemostas		S2/E2	Determination of saliva p	1/3				
S4/E4 Alkaline phosphatase: determination of Km and Vmax in the presence of inhibitors 1/3 S5/E5 Determination of blood glucose concentration 1/3 S6/E6 Determination of hemoglobin HbA1c by ion exchange chromatography 1/3 S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction Imme in entirety laboratory work with mentor Partial e-learning laboratory work with mentor laboratory Partial		S3/E3	Determination of salivary	amylase activity	1/3			
Arkaline prospirates: determination of km and Vmax In the presence of inhibitors 1/3 S5/E5 Determination of blod glucose concentration 1/3 S6/E6 Determination of Hemoglobin HbA1c by ion exchange chromatography 1/3 S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction		S4/E4	Aller line and see the states of all	in the second seco	1/3			
Syles Determination of blood glucose concentration 1/3 S6/E6 Determination of hemoglobin HbA1c by ion exchange chromatography 1/3 S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction Student Regular class attendance Requer class attendance			Alkaline phosphatase: del	termination of K _m and V _{max} in the	_			
So/L3 Determination of brodu glucuse concentration 1/3 So/E6 Determination of hemoglobin HbA1c by ion exchange 1/3 Sr/E7 Determination of HDL-cholesterol 1/3 Sr/E7 Determination of HDL-cholesterol 1/3 Sr/E7 Determination of HDL-cholesterol 1/3 Sr/E8 Determination of iron and serum iron binding capacity 1/3 Sr/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of physical, chemical properties and pathological components of urine 1/3 S12/E12 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops partial e-learning field work (other) Student Regular class attendance A drive attendance		SE/E5	S5/E5 Determination of blood glucose concentration					
S0/E0 Determination of hemoglobin HbA1c by ion exchange chromatography 1/3 \$7/E7 Determination of HDL-cholesterol 1/3 \$8/E8 Determination of iron and serum iron binding capacity 1/3 \$9/E9 Serum protein electrophoresis 1/3 \$1/2 S10/E10 Nucleic acid electrophoresis 1/3 \$10/E10 Nucleic acid electrophoresis 1/3 \$11/E11 Determination of salivary cortisol concentration 2/3 \$12/E12 Determination of creatinine clearance in 24-hour urine 1/3 \$13/E13 Determination of conjugated and unconjugated serum bilirubin 1/3 \$14/E14 Determination of primary hemostasis parameters 2/3 \$16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction Independent assignments Independent assignments Image: partial e-learning Independent assignments Independent assignments Image: partial e-learning Independent assignments Independent assignments Student Regular class attendance (other) Vork with mentor		55/E5 \$6/F6						
S7/E7 Determination of HDL-cholesterol 1/3 S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of salivary cortisol concentration 2/3 S12/E12 Determination of physical, chemical properties and pathological components of urine 1/3 S14/E14 Determination of conjugated and unconjugated serum billirubin 1/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction a vectures a multimedia 1 I aboratory I aboratory I work with mentor 1 I aboratory I work with mentor I aboratory 0 (other) Student Regular class attendance 4 tions attendance 4 tions attendance		30/20	Determination of hemogl chromatography	obin HbA1c by ion exchange	1,3			
S8/E8 Determination of iron and serum iron binding capacity 1/3 S9/E9 Serum protein electrophoresis 1/3 S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of salivary cortisol concentration 2/3 S12/E12 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of primary hemostasis parameters 2/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction active resisting and workshops independent assignments 2 g on line in entirety partial e-learning idaboratory work with mentor g on line in entirety work with mentor other (other) Student Student Regular class attendance Active restribution in the boothere server Active restribution in the boothere server Active restribution in the boothere server		S7/E7	Determination of HDL-cho	1/3				
S9/E9 Serum protein electrophoresis 1/3 \$10/E10 Nucleic acid electrophoresis 1/3 \$11/E11 Determination of salivary cortisol concentration 2/3 \$12/E12 Determination of physical, chemical properties and pathological components of urine 1/3 \$13/E13 Determination of creatinine clearance in 24-hour urine 1/3 \$14/E14 Determination of conjugated and unconjugated serum bilirubin 1/3 \$15/E15 Determination of primary hemostasis parameters 2/3 \$16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops		S8/E8	Determination of iron and	d serum iron binding capacity	1/3			
S10/E10 Nucleic acid electrophoresis 1/3 S11/E11 Determination of salivary cortisol concentration 2/3 S12/E12 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of conjugated and unconjugated serum bilirubin 1/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction		S9/E9	Serum protein electropho	1/3				
S11/E11 Determination of salivary cortisol concentration 2/3 S12/E12 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of conjugated and unconjugated serum bilirubin 1/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops independent assignments 2 gravital e-learning independent assignments independent assignments 1/3 Student Regular class attendance work with mentor 1/3		S10/E10	Nucleic acid electrophore	sis	1/3			
S12/E12 Determination of physical, chemical properties and pathological components of urine 1/3 S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of conjugated and unconjugated serum bilirubin 1/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops independent assignments 2 i exercises i aboratory work with mentor i aboratory grantial e-learning i (other) Student Regular class attendance		S11/E11	Determination of salivary	cortisol concentration	2/3			
Format of instruction x lectures x seminars and workshops independent assignments a x lectures independent assignments x seminars and workshops independent assignments a x lectures independent assignments x seminars and workshops independent assignments a work with mentor independent assignments b isoratory independent assignments c work with mentor independent assignments c		S12/E12			1/3			
S13/E13 Determination of creatinine clearance in 24-hour urine 1/3 S14/E14 Determination of conjugated and unconjugated serum bilirubin 1/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops independent assignments 2 exercises on line in entirety laboratory work with mentor 1/3 partial e-learning (other) (other) Student Regular class attendance		· ·	pathological components	of urine				
S14/E14 Determination of conjugated and unconjugated serum 1/3 bilirubin S15/E15 Determination of primary hemostasis parameters 2/3 S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures independent assignments 2 exercises Independent assignments Independent assignments 1/3 partial e-learning Independent assignmentor 1/3 1/3 Student Regular class attendance (other) 1/3		S13/E13	Determination of creatini	ne clearance in 24-hour urine	1/3			
S15/E15 Determination of primary hemostasis parameters 2/3 S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops independent assignments 2 exercises Independent assignments Independent assignments 1 partial e-learning Independent assignmentor 1 1 Student Regular class attendance (other) 1		S14/E14	Determination of conjuga bilirubin	ted and unconjugated serum	1/3			
S16 Specificities of samples in the biochemical laboratory and possible sources of interference 2 Format of instruction x lectures x seminars and workshops independent assignments Generative exercises multimedia Generative of interference laboratory Format of instruction on line in entirety Generative of interference work with mentor Generative of interference (other) Student Regular class attendance Active mention in the tenching network Active mention in the tenching network		S15/E15	Determination of primary	hemostasis parameters	2/3			
Format of instruction x lectures a seminars and workshops independent assignments a exercises multimedia b on line in entirety laboratory c partial e-learning work with mentor c field work (other) Student Regular class attendance		\$16	Specificities of samples in	the biochemical laboratory and	2			
Format of instruction x lectures x seminars and workshops independent assignments □ exercises □ on line in entirety □ partial e-learning □ field work Student Regular class attendance Active participation in the tenching process □ other			possible sources of interfe	erence				
Format of instruction x seminars and workshops independent assignments independent assignments multimedia independent assignments independent assignments independent assignments independent		x lectures						
Format of instruction exercises on line in entirety partial e-learning field work multimedia laboratory work with mentor (other) Student Regular class attendance Active participation in the teaching process		x seminars and	d workshops	independent assignments				
Format of instruction □ checked besits □ laboratory □ on line in entirety □ laboratory □ work with mentor □ field work □ (other) Student Regular class attendance Active participation in the teaching process				🗆 multimedia				
Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image: Internet of the entirety Image:	Format of instruction		entirety	🗆 laboratory				
Image: partial e-learning Image: partial e-learning				□ work with mentor				
Student Regular class attendance				□ (other)				
responsibilities Active participation in the teaching process	Student		attendance					
responsibilities Active participation in the teaching process	responsibilities	Active particin	Regular class attendance Active participation in the teaching process					

	Password for AAI EduHr electronic identity to access e-learning							
Screening student work (name the	Class attendance		Research		Practica	trainin	g	
proportion of ECTS credits for each	Experimental work	0,6	Report					
activity so that the	Essay		Seminar essay		(0	Other)		
credits is equal to the	Tests		Oral exam	1,8	(0	Other)		
ECTS value of the course)	Written exam	3,6	Project		(0	Other)		
		lustion in	dicator	Success (r	oints)	Share	rado (%)	
	Everimental		ticals)	3000055 (p	Joints	Silare	10	
	Experimental w	/01K (prac	licals)	10			10	
	Oral ovam			00			20	
				50			100	
Grading and evaluating student work in class and at the final exam	*** The written	exam car	n be taken partial RATIO OF SUCCE	lly, in two part	s or at or UATION	nce		
	Achieved success Criteria					Grade		
	65-74	(70)	meets the	minimum crite	ria	a sufficient (2)		
	75-82		aver		.110		good (3)	
	83-92 above-aver						very good (4)	
	93-100			excellent (5)				
	Title					Number of copies in the		
					libr	ary	other media	
Required literature (available in the library and via other media)	1. Topić E, Primorac D, Janković S: Medical and Biochemical Diagnostics in Clinical Practice. Medicinska naklada, Zagreb, 2nd edition, 2018.							
	 Harper's Illustrated Biochemistry, Medicinska naklada, Zagreb, 28 th edition Lange Medical Books / McGraw-Hill, 2009. (Croatian translation, 2011.) 							
Optional literature (at	Mumbu Mil Criteratore D. Dooro V. Olivitad Discharging Cit							
submission of study	wurphy wu	, 511vas	slava K, Dea	ns k. Cimic		chem	istry, oth	
programme proposal)	Edition, Else	evier, 2	2018.					
Quality accurate	 Teaching out 	ality anal	vsis by students a	nd teachers				
quality assurance	 Fyam nassin 	g rate and	alvsis					
the acquisition of ovit	Committee	for contro	of teaching ron	orts				
competences	 External eva 	luation		51 (5				
Other (as the proposer wishes to add)		-						

NAME OF THE COURSE	E	Cell Biology with the Basics Of Genetics								
Code	ZSL609 Year of study 2.									
Course teacher	Assistant Kuret, pl	: professor Sendi nd.	Credits (ECTS)	4.						
	/		Type of instruction	L	S	E	Т			
Associate teachers			(number of hours)	30	30	25				
Status of the course	Mandato	pry	Percentage of application of e-learning	Up to 1	.0%					
	•	COURS	E DESCRIPTION	•						
Course objectives	Introduc diseases Explain r relations basis of a	e students to the basi Introduce students t nolecular processes to hips of molecular pro acquired knowledge c	ic genetic principles of inherit o molecular biology techniqu o students. Teach the student cesses. To enable the studen of modern biological science.	ing mon es used : to conn t to judg	ogenic a in scienti lect the c e indepe	nd polyge fic studie ausal ndently o	enic es. on the			
Course enrolment requirements and entry competences required for the course	No requi	requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - Explain - Link gen - To relat in this re - Express contemp - Criticall To conclu acquired	fter completing the course the student will be able to: Explain the molecular mechanisms of cell functions; Link genetic principles of inheritance of monogenic and polygenic diseases; To relate the scientific study of inheritance with the techniques of molecular biology used in this regard; Express the professional terminology required for continuous monitoring of ontemporary biomedical literature; Critically judge in problem-oriented teaching; o conclude and judge the causal relationships between molecular processes based on the cquired knowledge.								
	Form of teaching	E g	Theme			Numb stuc hoi	per of lent urs			
		Principles of molecular biology and detailed explanations of DNA structure, replication, transcription and translation, laws of inheritance, polygenic diseases, molecular laboratory techniques, scientific approach to determining genetic predisposition for disease development, cytogenetics, methods in cytogenetics, prenatal diagnostics, molecular events in cancer, human genome.								
Course content			Theme							
broken down in detail	L/S	History o	of genetics and its impact on r	nedicine		2/	/2			
schedule (svilabus)	L/S	Cellula	r and molecular basis of inher	itance		2/	/2			
	L/S	(I Cellula (transcription, 1	DNA, DNA sequences, mtDNA r and molecular basis of inher translation, genetic code, reg expression, mutations)	.) ritance ulation o	ofgene	2/	′2			
	L/S	(Chromosome and cell division			2/	/2			
	L/S		Inheritance patterns			2/	/2			
	L/S	Polyg	enic and multifactorial inherit	ance		2/	/2			
	L/S	Рори	llation and mathematical gen	etics		2/	/2			
	L/S		Developing genetics			2/	2			
	L/S		Cancer genetics	ation		2/	2			
	L/ 3	DINA t	echnology and its implement	ation		2/	۷			

	1/5		Dhar		anation			2/2		
	L/3		Pliali	nacog	enetics			2/2		
	L/S		Ireatment	of ger	netic diseases			2/2		
	L/S	C	hromosomal diso	ders.	Monogenic d	isease	S.	2/2		
	L/S		Cloning. Genetic	ally m	odified organ	isms.		2/2		
	L/S		Ethical and legal i	ssues	in medical ge	netics		2/2		
	E		Ν	icrosc	сору			5		
	E		DNA isola	tion a	ind analysis			5		
	F		Cell cvcl	e. Mit	otic index.			5		
	F		K	arvot				5		
	F		Gen	notics	ype tasks			5		
			Uel	letits	lasks			5		
				🗆 in	□ independent assignments					
	🖾 seminar	s and works	hops							
Format of instruction	🖾 exercise	S			borston					
Format of mistruction	🗆 on lin	e in entiret	Ý							
	🗵 partial e	-learning		□ work with mentor						
	□ field wo	rk			(other)					
		ss attendar	CA							
Student	Active nart	icination in	the teaching proc	200						
responsibilities	Password f	or AAI Eduk	trelectronic ident	tv to	access e-learn	ning				
Corponing student	Class					1116	/	-		
work (name the	attondance	0,4	Research		P	ractica	l training	g		
work (nume the	Evertiment	; tal								
proportion of ECTS	Experiment	0,4	Report			(Other)			
activity so that the	WOLK			_						
total number of ECTS	Essay		Seminar essa	iy 0,8	3		Other)			
credits is equal to the	Torte		Oral oyam			1	Othor)			
ECTS value of the	Tests		Oral exam			(other)			
course)	Written ex	am 2,4	Project			(Other)			
coursey										
	r							(a.()		
		Verificatio	n indicators		Success (po	ints)	Rati	ng share (%)		
				-						
	Attendan	ce and activ	vity at lectures and		10			10		
	seminars	for 100% at	tendance							
	Experime	ntal work (p	practical exercises	10			10			
Grading and	Written e	xam		60				60		
ovaluating student	Seminar a	issignment	(presentation)	20				20		
work in class and at	In total				100			100		
the final exam										
			RATIO OF SU	CESS	AND EVALUA	TION				
	Achieve	d success		Criteri	ion			mark		
	percen	tage (%)								
	60-	·69,9	meets the mini	mum	criteria		su	fficient (2)		
	70-	79,9	average succes	5				good (3)		
	80-	-89,9	above-average	succe	ss		ve	ry good (4)		
	90	-100	exceptional suc	cess			ex	cellent (5)		
			4 •			Num	ber of			
			Title			cop	ies in	Availability via		
			i i i i i			thel	ibrary	other media		
	1 Turnner	ny PD Ella	rd S. Emervieve c	snove	medicinske					
Required literature	genetike	Medicin	ska naklada 7a	oreh	2011 14					
(available in the	genetike. Medicinska naklada, Zagreb, 2011., 14.									
	edition	edition.								
library and via other	edition.	M Haurm	an RF Stanica - M	hekul	arni nristun					
library and via other media)	edition. 2. Cooper (Medicing	GM, Hausma	an RE. Stanica - M Zagreb 2010 +b	olekul a fifth	arni pristup. translated					
library and via other media)	edition. 2. Cooper (Medicing	GM, Hausma ika naklada,	an RE. Stanica - M Zagreb, 2010., th	olekul e fifth	arni pristup. translated					
library and via other media)	edition. 2. Cooper (Medicins edition ii	GM, Hausm ka naklada, h the croati	an RE. Stanica - M . Zagreb, 2010., th an language nik T : Medicinska	olekul e fifth	arni pristup. translated					
library and via other media)	edition. 2. Cooper (Medicins edition in 1. Peruzovi	GM, Hausm ka naklada, n the croati ć M., Zemu	an RE. Stanica - M . Zagreb, 2010., th an language nik T.: Medicinska	olekul e fifth biolog	arni pristup. translated gija,					

	medicinsku biologiju, Medicinski fakultet u Splitu, Split, 2010.
Optional literature (at the time of submission of study programme proposal)	1. Cox TM, Sinclair J. Molekularna biologija u medicini. Medicinska naklada Zagreb, 2000., croatian edition.
Quality assurance methods that ensure the acquisition of exit competences	Regular class attendance: 1. lectures - at least 80% of all classes attended, 2. seminars 90% and exercises 100%, 3. active participation in classes.
Other (as the proposer wishes to add)	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation

NAME OF THE COURSE	COURSE Cytology and Histology								
Code	ZSL610			Year of stu	ıdy	2.			
Course teacher	Assistan Dinka Šu	t profess Indov	sor	Credits (E0	CTS)	4			
	Associat	es from	teaching	Type of in	struction	L	S	Е	Т
Associate teachers	basese			(number c	of hours)	25	10	35	
Status of the course	Mandato	ory		Percentag of e-learni	e of application ng	Up to 10)%		
	<u></u>		COU	RSE DESCRIPT	ION	<u> </u>			
Course enrolment requirements and entry competences required for the course	No requ	uiremen	ts						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After con - - - - -	 Describe the cell and tissue morphology with basic pathological changes at both levels; Independently perform staining of cytology sample; Perform the method of cytochemical staining; Perform the method of immunocytochemical staining; Describe the basic principle of cytomorphology; Manage the technology in a cytology laboratory. 							
	L,S,E		Basic types of tissue					3,2	urs 2,4
	L,S,E		Visualizat	tion of the bas	ic types of tissue	compone	ents	4,2	2,4
	L,S,E	Fix	Fixation techniques, processing of cytological material (liquid samples, classic smears, LBC, cell blocks)						
Course content	L,S,E		Standa	ard cytological	staining. Artifac	ts. Storage	2.	3,1	1,5
broken down in detail by weekly class schedule (syllabus)	L,S,E		imn	Additiona nunocytochen practical appli	l methods (cytoc histry - the basics ications, molecul cytodiagnosis)	hemistry, s of metho ar marker	ods and s in	4,1	.,5
	L,S,E		Automation in cytology laboratories						L,4
	L,S,E		iı	Cooperation ntroduction of	with clinical cyto	logists in t nd superv	the ision	3,1	,3
	L,S,E		Mana	agement of cy planning, effic	tological laborat ciency and qualit	ory - orga y supervis	nization, ion	3,1	L,3
Format of instruction	X lecture X semina X exercis D on partia	es ars and v ses <i>line</i> in e Il e-learr work	planning, efficiency and quality supervision and workshops be in entirety c-learning rk planning, efficiency and quality supervision independent assignments independent assi						
Student responsibilities	Regular Active pa Passwor	class att articipat d for AA	endance ion in the t I EduHr ele	eaching proce	ess ty to access e-lea	arning			
Screening student	Class attendar	nce	0,4	Research		Practical	training	1,2	
proportion of ECTS	Experim work	ental		Report					
activity so that the	Essay			Seminar essa	у	(0	ther)		

total number of ECTS	Tests			Oral ex	xam		(Other)		
ECTS value of the	Written e	exam	2,4	Projec	t		(Other)		
course)										
		Verific	cation indic	cators		Success (poi	nts)	s) Part of grade (%)		
	Class at	tendan	ce			5		10		
	Written	exam				30			60	
	Total	ii traimi	Ig			15 50			<u> </u>	
Grading and			RATI	O OF SL	JCCESS A	ND EVALUAT	ION			
evaluating student			SUCCESS	RATE AG	CHIEVED	(%)	EVA	LUATIO	N	
work in class and at			FROM			ТО				
			60%		6	9,9%	suff	ficient (2)	
			70%		7	9,9%	g	ood (3)		
			80%		8	9,9%	very	good (4	L)	
			90%		1	.00%	exc	ellent (5)	
	Title Number of copies in the library									bility via media
(available in the	Young B, Churchill	Young B, Heath JW. Wheater's Functional Histology. Churchill Livin gstone 2000. Izbrana poglavlja								
library and via other media)	Koss LG,	Melame	ed MR. Kos	s' Diagr	nostic Cy	ology.				
, , , , , , , , , , , , , , , , , , ,	Lippincot	t Willia Fine N	ms & Wilkii eedle Asni	ns 2006 ration (. Izabran	a poglavlja Springer				
	2006. Iza	abrana	oglavlja		sytology.	Springer				
Optional literature (at	Merica G	lavina D)urdov. Cit	ološke i	i histološ	ke tehnike. Sp	lit 2000.	interna s	skripta	
the time of study										
programme proposal)										
Quality assurance	 Teac 	hing qu	ality analy	sis by st	udents a	nd teachers				
methods that ensure	 Exan 	n passin	g rate ana	lysis						
the acquisition of exit	Com	mittee	for control	of teac	hing rep	orts				
Other (as the	• Exte	rnal eva	luation							
proposer wishes to										
add)										

	Histo	opathology Labo	boratory Techniques						
ZSL611			Year of study	2nd					
Prof. dr. Durdov	sc. M	erica Glavina	Credits (ECTS)	2					
Kristina univ.bac izv. prof. Mardeši Ivan Mar prof. dr. Vukojevi	Bedrii cc.mec . dr. se ć rio Sta sc. Ka ić	na, d.lab.diagn. c. Snježana aničić, dr.med. atarina	Type of instruction (number of hours)	L 10	S 10	E 45	Т		
Mandato	ory		Percentage of application of e-learning	up to 10)%				
		COURS	E DESCRIPTION						
No requi	o requirements								
After con - Make a histoche - Develo immuno - Preparo - Identify	er completing the course the student will be able to: Take a frozen incision and classic histological preparation and stain it with standard HE, tochemical and immunohistochemical methods; evelop direct immunofluorescent staining, double immunofluorescent and munohistochemical staining; repare a sample using the in situ hybridization method of CISH and FISH type; lentify difficulties and errors in the work process and solve them.								
Teachi form L1-2 L3 L4 L5 L6 L7 L8 L9 L10 L11-1 L13-1 L15-1 L17-1 L17-1 L17-2 S1 S2 S3 S4 S5 S6 S7 S8 S9-1	Prepare a sample using the in situ hybridization method of CISH and FISH type; Identify difficulties and errors in the work process and solve them.Teaching formTopicNumber studem hoursL 1-2Diagnostic pathology2L 3Tissue fixation and preanalytical procedure1L 4Basic histological staining1L 5Laboratory automatization1L 6Histochemical stainings I1L 7Histochemical stainings II1L 8Electron microscopy1L 9Immunohistochemistry2L 1-12Epithelial and connective tissue2L 17-18Muscle tissue2L 17-18Muscle tissue2S 1Tissue processing1S 3Automatization of the laboratory1S 4Histochemistry in diagnostic practice I1S 5Histochemistry in diagnostic practice II1S 6Electron microscopy1								
	ZSL611 Prof. dr. Durdov Kristina univ.baci izv. prof Mardeši Ivan Ma prof. dr. Vukojev Mandat No requ After co - Make a histoche - Develo immuno - Prepar - Identif form L 1-2 L 3 L 4 L 5 L 6 L 7 L 8 L 9 L 10 L 10-2 S 1 S 2 S 3 S 4 S 9-1 S 9	HistoZSL611Prof. dr. sc. MDurdovKristina Bedriuuniv.bacc.medizv. prof. dr. sc.MardešićIvan Mario Staprof. dr. sc. KaVukojevićMandatoryMandatoryAfter complet- Make a frozehistochemicalDevelop direimmunohistorPrepare a saIdentify diffiTeaching formL 1-2L 3L 4L 5L 6L 7L 8L 9L 10L 11-12L 13-14L 10L 11-12L 13-14L 10L 10L 10L 10S 1S 2S 3S 4S 5S 6S 7S 8S 9-10	Histopathology Labor ZSL611 Prof. dr. sc. Merica Glavina Durdov Kristina Bedrina, univ.bacc.med.lab.diagn. izv. prof. dr. sc. Snježana Mardešić Ivan Mario Staničić, dr.med. prof. dr. sc. Katarina Vukojević Mandatory COURS No requirements After completing the course tl - Make a frozen incision and c histochemical and immunofiluor immunohistochemical staining - Prepare a sample using the i - Identify difficulties and error Teaching form L 1-2 L 3 Tissue L 4 L 5 L 6 L 7 L 8 L 9 L 10 L 11-12 L 13-14 L 19-20 S 1 S 2 S 3 A S 4 Hist S 5 Mathett	Histopathology Laboratory Techniques ZSL611 Year of study Prof. dr. sc. Merica Glavina Durdov Credits (ECTS) Kristina Bedrina, univ.bacc.med.lab.diagn. izv. prof. dr. sc. Snježana Mardešić Type of instruction (number of hours) Nardešić Type of instruction (number of hours) Mandatory Percentage of application of e-learning COURSE DESCRIPTION No requirements After completing the course the student will be able to: - Make a frozen incision and classic histological preparatic histochemical and immunohistochemical methods; - Develop direct immunofluorescent staining, double imm immunohistochemical staining; - Prepare a sample using the in situ hybridization method - Identify difficulties and errors in the work process and sc Teaching form Topic L 1-2 Diagnostic pathology L 3 Tissue fixation and preanalytical p L 4 Basic histological stainings I L 5 Laboratory automatization L 5 L 1-2 Diagnostic pathology L 3 Tissue fixation and preanalytical p L 4 Basic histological stainings I L 5 Laboratory automatization S 1 L 1-2 Diagnostic pathology L 3 L 3 L 1-2 Diagnostic pathology L 4 Basic histological stainings I L 5 L 1-12 Diagnostic pathology L 3 L 3 </td <td>Histopathology Laboratory Techniques ZSL611 Year of study 2nd Prof. dr. sc. Merica Glavina Durdov Credits (ECTS) 2 Kristina Bedrina, univ.bacc.med.lab.diagn. izv. prof. dr. sc. Snježana Mardešić I I Van Mario Staničić, dr.med. prof. dr. sc. Katarina Vukojević Type of instruction (number of hours) 10 Mandatory Percentage of application of e-learning up to 10 After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and sta histochemical and immunohistochemical methods; - Develop direct immunofiluorescent staining, - Prepare a sample using the in situ hybridization method of CISH ai - Identify difficulties and errors in the work process and solve them Teaching form Topic Teaching form Topic 1.1 Laboratory automatization L 6 1.2 Diagnostic pathology L 1.2 1.3 Tissue fixation and preanalytical procedure L 4 Basic histological staining L 7 Histochemical stainings I 1.4 Cardiage tissue L 1.7 1.5 Laboratory automatization L 6 1.6 Histochemical stainings I 1.7 Histochemical stainings I 1.8</td> <td>Histopathology Laboratory Techniques ZSL611 Year of study 2nd Prof. dr. sc. Merica Glavina Durdov Credits (ECTS) 2 Kristina Bedrina, univ.bacc.med.lab.diagn. izv. prof. dr. sc. Snježana Mardešić L 5 Van Mario Staničić, dr.med. prof. dr. sc. Katarina Type of instruction (number of hours) 10 10 Mandatory Percentage of application of e-learning up to 10% COURSE DESCRIPTION COURSE DESCRIPTION No requirements COURSE DESCRIPTION After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and stain it with histochemical and immunohistochemical methods; - Develop direct immunofiluorescent staining, double immunofiluorescent ar immunohistochemical staining; - Prepare a sample using the in situ hybridization method of CISH and FISH t - Identify difficulties and errors in the work process and solve them. Teaching form Topic L1-2 Diagnostic pathology L3 Tissue fixation and preanalytical procedure L4 Basic histological staining L5 Laboratory automatization L6 Histochemical stainings II L7 Histochemistry L9 Immunohistochemistry<!--</td--><td>Histopathology Laboratory Techniques ZSL611 Year of study 2nd ZSL611 Year of study 2 Durdov Credits (ECTS) Z L S E Undow L S E Undow L S E Variance of application (number of hours) 10 10 45 Mandatory Percentage of application of elearning Impose of application of to 10% COURSE DESCRIPTION No requirements After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and stain it with standard instruction (numohistochemical staining; O - Prepare a sample using the in situ hybridization method of CISH and FISH type; - Identify difficulties and errors in the work process and solve them. Imposic pathology I</td></td>	Histopathology Laboratory Techniques ZSL611 Year of study 2nd Prof. dr. sc. Merica Glavina Durdov Credits (ECTS) 2 Kristina Bedrina, univ.bacc.med.lab.diagn. izv. prof. dr. sc. Snježana Mardešić I I Van Mario Staničić, dr.med. prof. dr. sc. Katarina Vukojević Type of instruction (number of hours) 10 Mandatory Percentage of application of e-learning up to 10 After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and sta histochemical and immunohistochemical methods; - Develop direct immunofiluorescent staining, - Prepare a sample using the in situ hybridization method of CISH ai - Identify difficulties and errors in the work process and solve them Teaching form Topic Teaching form Topic 1.1 Laboratory automatization L 6 1.2 Diagnostic pathology L 1.2 1.3 Tissue fixation and preanalytical procedure L 4 Basic histological staining L 7 Histochemical stainings I 1.4 Cardiage tissue L 1.7 1.5 Laboratory automatization L 6 1.6 Histochemical stainings I 1.7 Histochemical stainings I 1.8	Histopathology Laboratory Techniques ZSL611 Year of study 2nd Prof. dr. sc. Merica Glavina Durdov Credits (ECTS) 2 Kristina Bedrina, univ.bacc.med.lab.diagn. izv. prof. dr. sc. Snježana Mardešić L 5 Van Mario Staničić, dr.med. prof. dr. sc. Katarina Type of instruction (number of hours) 10 10 Mandatory Percentage of application of e-learning up to 10% COURSE DESCRIPTION COURSE DESCRIPTION No requirements COURSE DESCRIPTION After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and stain it with histochemical and immunohistochemical methods; - Develop direct immunofiluorescent staining, double immunofiluorescent ar immunohistochemical staining; - Prepare a sample using the in situ hybridization method of CISH and FISH t - Identify difficulties and errors in the work process and solve them. Teaching form Topic L1-2 Diagnostic pathology L3 Tissue fixation and preanalytical procedure L4 Basic histological staining L5 Laboratory automatization L6 Histochemical stainings II L7 Histochemistry L9 Immunohistochemistry </td <td>Histopathology Laboratory Techniques ZSL611 Year of study 2nd ZSL611 Year of study 2 Durdov Credits (ECTS) Z L S E Undow L S E Undow L S E Variance of application (number of hours) 10 10 45 Mandatory Percentage of application of elearning Impose of application of to 10% COURSE DESCRIPTION No requirements After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and stain it with standard instruction (numohistochemical staining; O - Prepare a sample using the in situ hybridization method of CISH and FISH type; - Identify difficulties and errors in the work process and solve them. Imposic pathology I</td>	Histopathology Laboratory Techniques ZSL611 Year of study 2nd ZSL611 Year of study 2 Durdov Credits (ECTS) Z L S E Undow L S E Undow L S E Variance of application (number of hours) 10 10 45 Mandatory Percentage of application of elearning Impose of application of to 10% COURSE DESCRIPTION No requirements After completing the course the student will be able to: - Make a frozen incision and classic histological preparation and stain it with standard instruction (numohistochemical staining; O - Prepare a sample using the in situ hybridization method of CISH and FISH type; - Identify difficulties and errors in the work process and solve them. Imposic pathology I		

	E 2			Macroscopy of	patł	hology speci	imens			3
	E 3			Froz	en s	section				3
	E 4			Tissue	em	bedding				3
	E 5			C	Cutti	ing				3
	E 6			Staining q	uali	ty, artefacts				2
	E 7			S	tain	ing				2
	E 8			Qual	ity o	control				1
	E 9			Histo	che	mistry I				2
	E 10			Histor	cher	mistry II				2
	E 11			Electro	n mi	icroscopy				2
	E 12			Immunoł	nisto	ochemistry				3
	E 13			Molecu	lar p	pathology				3
	E 14			Microscopy –	type	es of epithel	lium 🔵			3
	E 15		N	licroscopy – Con	nec	ctive tissue a	and skin			3
	E 16		Ν	Aicroscopy – Car	rtila	ge and bone	e tissue			3
	E 17			Microscopy	/ – M	Muscle tissu	e			3
	E 18			Microscop	y — I	Neural tissue	e			3
	x□ lectures			r		danandant	acciante	onto		
	x seminars	and works	ho	ps L	in 	Idependent	assignm	ents		
Format of instruction	□x exercises				_m	iultimedia				
Format of instruction	🗆 on line i	on line in entirety								
	□x partial e-l	in entirely in entirely ic partial e-learning in work with mentor if ield work in other)								
	I field work									
	Regular class	attendanc	e				-7			
Student	Active partici	pation in t	he	teaching proces	s					
responsibilities	Password for	AAI EduHr	r ele	ectronic identity	to	access e-lea	rning			
Screening student	Class	0.2		Deserve			Duration	L 4	_	0.0
work (name the	attendance	0,2		Research			Practica	i trainin	g	0,8
proportion of ECTS	Experimental			Banart	~					
credits for each	work			кероп	X					
activity so that the	Essay			Seminar essay			(0	Other)		
total number of ECTS							•			
credits is equal to the	Tests	x		Oral exam	х		(0	Other)		
ECIS value of the	Written exam	x		Project			((Other)		
course)			-				(,		
	[Fire]					Deinte		Char		he suede
	EVal	uating of s	stut	Jents work		Points		Slidie	י ווו ש 10/	(ine grade
						5			10	6) 1%
	Attendance	and activi	tv a	t lectures and		5			10	
	seminars for	100% att	enc	lance						
Grading and	Practical wo	rk				20			40	1%
evaluating student	Written exa	m				25			50	1%
work in class and at	Total					50			10	00
the final exam						•				
	Written exam	1								
	(%))	cr	riteria				G	rade	mark
	60-69	1,9	m	inimal				su	fficie	ent (2)
	70-79	1,9	a١	/erage					good	d (3)
	80-89	1,9	ał	oove average				ve	ry go	ood (4)
	90-10)0	e	kcellent				ex	celle	ent (5)
Required literature							Num	per of	A.,	ailahilityyia
(available in the				Title			copies	in the	AV	ther media
library and via other							libr	ary	0	
media)	Merica Glavi	na Durdov	ν.	Laboratorijske	hist	topatološke	1	L	e-li	brary REDAK
	tehnike. Re	edak 2015.								

	Švob M. Histološke i histokemijske metode. Svjetlost Sarajevo 1974.	1	
	Young B, Heath JW. Wheater's Functional Histology. Churchill Livingstone 2000. Izbrana poglavlja	1	
Optional literature (at the time of submission of study programme proposal)	Suvarna SK, Layton C, Bancroft JD. Bancrofts theory and Pr Techniques. 8. Izd. London. E book. London Elselvier 2019.	actice of Histol	ogicakl
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 		
Other (as the proposer wishes to add)			

				X			
NAME OF THE COURSE	E	Instrumental Tech	niques in MLD				
Code	ZSL612		Year of study	2			
Course teacher	Davorka profess	a Sutlović, PhD, Full or with tenor	Credits (ECTS)	4			
	Zlatka K	nezović, PhD,		L	S	Е	F
Associate teachers	Assistan Sendi Ku professo Vesela Assistar	it protessor uret, PhD, Assistant or Forlak Lovrić, PhD, nt professor	Type of instruction (number of hours)	25	15	30	
Status of the course	Mandat	ory	Percentage of application of e-learning	Up to 20)%		
		COURS	E DESCRIPTION				
 Introduce students to the types of instrumental techniques and the manner and reas for their use in medical laboratory diagnostics. Introduce the student to basic knowledge in a theoretically and practically applicable way. To develop students' basic skills in the correct selection of appropriate analytical techniques for rapid obtaining of qualitative and quantitative results. Explain the theoretical basis of instrumental techniques On the examples of results, warn of timely detection of errors 						asons	
Course enrolment requirements and entry competences required for the course	No requ	No requirements					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co 1. Perfo instrum 2. Estab 3. Prepa 4. to de 5. Ident	mpleting the course the rm data processing usion ental techniques and to a difference betwee are a sample for process scribe the purpose of st ify difficulties and error	ne student will be able to: ing spectroscopic, chromato echniques in DNA analysis; een the above techniques; ssing using one of the follow some of these techniques; ors in the work process and s	graphic, r ving techn solve ther	[.] adioimm Iiques; n.	iunochen	nical

	Course type		T	eaching unit		Hours			
	1	ntroductio	n to instrumen	tal techniques E	asic concepts and	3			
	L F	physical pai	rameters of ins	trumental techi	niques. Types of				
	i	nstrument	al techniques						
	L ۱	/alidation o	of the instrume	ntal method		2			
	L (Gas chroma	atography, divis	sions and charad	cteristics.	3			
	F	Preparation	of samples fo	r gas chromatog	raphy				
	L l	iquid chro	matography, d	ivisions and cha	racteristics.	3			
		R spectron	netry			2			
		NMR instru	mental technic	lue		2			
		amples an	d preparation i	for DNA analysis	5	2			
	L I	Instrumental techniques in DNA analysis							
	L A	Atomic abs	orption and otl	ner techniques		3			
	L 1	Nuclear me	dicine			2			
Course content	L (Choice of in	istrumental teo	chnique		2			
course content	S (Chromatog	2						
broken down in detail	S I	Making cali	bration curves			2			
schedule (syllahus)	S l	JV spectro	metry			2			
schedule (synabus)	S A	AAS 🛛				2			
	S F	Radio immu	uno essays			2			
	S L	aboratory	accreditation			3			
	E S	Sampling for chemical toxicological analysis and extraction							
	Ε (GCMS instr	ument operation	on and chromat	ogram search	4			
-	E (Calculation	s for the prepa	ration of the cal	ibration curve	2			
	E [Determinat compounds	ion of the cond in biological s	centration of vo amples	atile organic	2			
	E [Determination of drug concentration using HPLC method							
	E S	Spectrophotometric methods							
	E [DNA analysis, from sample to PCR							
	E	DNA instru	mental techniq	ues		3			
	E (Determinat	ion of histamir	e in food sampl	es	3			
	E I	Determinat	ion of metals i	n food samples		3			
	E F	Radioimmu	noassay			2			
	E 1	Techniques	in nuclear me	dicine		2			
	⊠ lectures								
	⊠ seminars and	workshops	5						
Format of instruction	🖾 exercises			🗵 laboratory					
	⊔ <i>on line</i> in enti	rety		, work with m	entor				
	partial e-learr	ning		□ (other	·)				
	☐ field work				/				
Student	Regular class att	endance							
responsibilities	Active participat	ion in the t	eaching proce	SS .					
	Password for AA	l EduHr ele	ectronic identit	y to access e-lea	arning				
Screening student	Class	0.20	Research		(Other)				
work (name the	attendance		-						
proportion of ECIS credits for each	Experimental	0.40	Report		(Other)				
activity so that the	Essay		Seminar essav	0.40	(Other)				
total number of ECTS credits is equal to the	, Tests		Oral exam	1.0	(Other)				
ECTS value of the	Written exam	2.0	Project		(Other)				
course)	ch chum								

	Verification indicators	;	Success		Rating	share (%)	
			(points)				
	Attendance and activi	ty at lectures and	5			5	
	seminars for 100% att	endance					
	Experimental work (pi	ractical exercises)	10		10		
	Seminar paper (prese	ntation)	10			10	
Grading and	Written exam (minimi	um pass rate on the	50			50	
evaluating student	test is 60% of correctly	y solved tasks)	25			25	
work in class and at			25			100	
the final exam	TOLAI					100	
		RATIO OF SUCCESS A	AND EVALU	ATION			
	Achieved success	Criterion		-	rating		
	percentage (%)						
	60-69,9	meets minimum criter	ia		su	fficient (2)	
	70-79,9	average success				good (3)	
	80-89,9	above average success	5		ve	ry good (4)	
	90-100	outstanding success			e×	cellent (5)	
				Num	ber of	Availability via	
			copies	in the	other media		
Required literature	4. Internal conjutation its		d la p	libr	ary	http://www.html	
(available in the	1. Internal script availat	d by D.		5	nttps://webknji		
library and via other	Sullovic)	video of instrumental ter	chniques			2010.1117	
media)	r presentations and video or instrumental techniques						
	1. A. C. Moffat. N	A. D. Osselton, B. Widdo	p. Clarke's A	Analysis	of Drug	s and Poisons. 3rd	
Optional literature (at	ed. London: Pharmad	ceutical Press, 2004.; F. F	P. Smith, Ha	ndbook	of Fore	nsic drug Analysis.	
the time of	Elseiver Academic Pr	ess, 2005.;				- <i>i</i>	
submission of study	P. Gerbards II. Bons J.	Sawazki I Szigan A We	ortmann GC	MS in	Clinical	Chamistry WILLEY	
programme proposal)	VCH Verlag GmbH Wei	nheim: 1999	a unann, oc	, 1013 111	Clinical	chemistry. WILLI-	
		ty analysis by students a	nd toochor	c			
Quality assurance	 Teaching quant Freedoming quant 	ty analysis by students a	ind teacher	5			
methods that ensure	 Exam passing i 	rate analysis					
the acquisition of exit	 Committee for 	r control of teaching rep	orts				
competences	 External evaluation 	ation					
Other (as the							
proposer wishes to							
auu)							

NAME OF THE COURSE	E Computer Processing of Laboratory Data (LIS)								
Code	ZSL613			Year of stu	ıdy	2.			
Course teacher	Assistant Leida Tai Medical	t profess ndara, N Biochen	sor 1A in nistry	Credits (EC	CTS)	2			
Associate teachers	Associate basese	es from	teaching	Type of ins (number o	struction f hours)	L 8	S 7	E 20	Т
Status of the course	Mandato	ory		Percentag of e-learni	e of application ng	Up to 10)%		
Course enrolment requirements and entry competences required for the course	No requ	No requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - - -	 fter completing this course students will be able to: Operate LIS application programs for data entry by direct communication betw autoanalyser and computer (on-line); Operate LIS application program for creating work orders and bar-code labels; Operate LIS application program for searching laboratory database. 							
	Form		Theme						
	E		The course refers to the theoretical and practical knowledge and skills related to the application of LIS in daily work						0
Course content broken down in detail	E	Lab	Laboratory data entry into computers: demands for laboratory testing, creating work orders, identification of samples, creating bar-code labels, entry and verification of test results						0
by weekly class schedule (syllabus)	L, S	Sto to	Storing laboratory results: database organization, easy access to data for searching, comparing and preparing financial and business statements.						,3
	L, S	int	Connecting laboratory data: the concept of hospital information system (HIS), the organizational structure of HIS.						,2
	L, S		Security risks and protection, ethical issues, protecting confidentiality of stored data						,2
Format of instruction	X lecture X semina X exercis D on partia field v	es ars and v ses <i>line</i> in e l e-learr vork	workshops ntirety iing		 independent assignments multimedia laboratory work with mentor (other) 				
Student responsibilities	Regular o Active pa Passwore	class att articipat d for AA	endance ion in the t I EduHr ele	eaching proce ctronic identit	ss sy to access e-lea	arning			
Screening student work (name the	Class attendar	nce		Research		Practical	training	1,6	
proportion of ECTS credits for each	Experimental Report								
activity so that the total number of ECTS	Essay			Seminar essa	y	(0	ther)	_	
credits is equal to the	Tests			Oral exam		(0	ther)		
course)	Written	exam	0,4	Project		(0	ther)		

Grading and evaluating student work in class and at the final exam	Verification indicators		Success (points)		Part of grade (%)					
	Written exam			10		20				
	Practical training			40		80				
	Total			50		100				
	RATIO OF SUCCESS AND EVALUATION									
	SUCCESS RATE ACHIEVED (%)			EVA	EVALUATION					
		FROM TO								
		60%	69,9%		suff	sufficient (2)				
	70%		7	9,9% g		ood (3)				
		80%	8	9,9%	very	very good (4)				
		90%	1	.00%	exc	excellent (5)				
Required literature (available in the library and via other media)	Title			Num copies lib	ber of s in the orary		bility via r media			
	Šrenger V., Justinić Ž.: Primjena informatičkih dijagnostika u kliničkom laboratoriju u: Štraus B., Stavljenić Rukavina A., Plavšić F.: Analitičke tehnike u kliničkom laboratoriju, Medicinska naklada, Zagreb, 1997., 327-343.									
Optional literature (at the time of submission of study programme proposal)	Telemedicina u Hrvatskoj, Akademija medicinskih znanosti Hrvatske, Zagreb, 2001									
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 									
Other (as the proposer wishes to add)										

NAME OF THE COURSE		Clinical Skills II									
Code	ZSL616		Year of stu	/ear of study 2.							
Course teacher	Daniela Šupe- Assistant prof	Domić, PhD, essor	Credits (E	CTS)	11.						
Associate teachers	Marija Banić, med. lab. diag Vladimira Mar Zlatka Knezovi Assistant prof Esma Čečuk Je Associates fro bases	iniv. bacc. n. tić, univ. bac ć, PhD, essor ličić, PhD, n teaching	c. Type of in (number o	struction of hours)	L 10	5 10	PCE 235	CE			
Status of the course	Mandatory		Percentag of e-learn	e of application	Till 10%						
	COURSE DESCRIPTION										
Course enrolment requirements and entry competences required for the course	No requireme										
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 After completing the course the student will be able to: Perform venipuncture of blood samples for hematological tests Prepare biological material for biochemical and coagulation analyzes Demonstrate the analysis and difference of urine in health and disease Make an analysis: creatinine, uric acid, glucose and ketones in urine, creatinine clearance Explain the analysis of basic enzymes important in laboratory diagnostics Measure the numerical concentrations of erythrocytes and leukocytes, hemoglobin, erythrocyte constants, erythrocyte sedimentation rate Explain basic blood groups and perform analyzes Perform preparation of biological material and perform cytological and 										
Course content broken down in detail by weekly class schedule (syllabus)	L,S O pr E E E E E E E E	10, 10, 10 30 30 25 25 25 25	10,10 100 30 30 25 25 25 25								
Format of instruction	x lectures x seminars and x exercises on line ir partial e-lea field work	l workshops entirety rning		 independent assignments multimedia x laboratory work with mentor (other) 							
Student responsibilities	Active participation in the teaching process Password for AAI EduHr electronic identity to access e-learning										
Screening student work (name the proportion of ECTS	Class attendance Experimental	1,57	Research Report		Practical	training					
activity so that the	Essay		Seminar essay		(Other)						
--	--	---	---------------------------------------	---------------------------------	---------	--	--	--	--		
credits is equal to the	Tests	9,43	Oral exam		(Other)						
ECTS value of the course)	Written exam		Project		(Other)						
Grading and evaluating student work in class and at the final exam	Written exam				-						
			Number of copies in the library	Availability via other media							
Required literature (available in the library and via other media)	C.A. Burtis, E.R. / of Clinical Ch izdanje. St. L poglavlja	 A. Burtis, E.R. Aschwood, D.E. Burns, ur. Tietz Textbook of Clinical Chemistry and molecular Diagnostics. 8. izdanje. St. Luis: Elsevier Saunders, 2018, odabrana poglavlja 									
	E. Topić, D. Primorac, S. Janković, M. Stefanović i sur. Medicinskobiokemijska dijagnostika u kliničkoj praksi, 2. dopunjeno i izmijenjeno izdanje, Medicinska naklada, Zagreb, 2018.										
	D. Čvorišćec, I. Čepelak Štrausova Medicinska biokemija, Medicinska naklada, Zagreb, 2009.										
Optional literature (at the time of submission of study programme proposal)	W.G. Guder, S. N the Laboratory: 4th, Updated Ed	W.G. Guder, S. Narayanan, H. Wisser, B. Zawta Diagnostic Samples: From the Patient to the Laboratory: The Impact of Preanalytical Variables on the Quality of Laboratory Results, 4th, Updated Edition, Git Vwerlag GMBH, 2009.									
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qu Exam passin Committee External eva 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 									
Other (as the proposer wishes to add)											

NAME OF THE COURSE	E F		Y						
Code	ZSL615		Year of stu	ıdy	2				
Course teacher	Zlatka Kne Assistant p	zović, PhD, professor	Credits (E	CTS)	3				
	Davorka Si	utlović, PhD, Full	Turne of in	atuu ati a a	1	S	F	F	
Associate teachers	professor	with tenor	(number o	of hours)	15	10	10		
	Floctivo		` Dorcontog	, o of application	20%	10	10		
Status of the course	Elective		of e-learn	ng	20%				
	1	COURS	E DESCRIPT	TION					
Course objectives	Introduce independe developing organism. detection the basic la the permit	independently determine the type of toxic compounds in food. Assist the student to developing awareness of the effects of toxic compounds and food additives on the whole organism. To acquaint the student with basic information about GMO food and the detection of this type of food among the offered food items. To acquaint the student with the basic laws prescribed by the Republic of Croatia and the EU regarding GMO food and the permitted dose of certain compounds in food.							
Course enrolment requirements and entry competences required for the course	No require	ements			X				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 After comp Explain th Identify t Establish Master b Identify f Master th the presention 	 Explain the basic principles in food toxicology; Identify toxic compounds in food; Establish the effect of toxic substances on the body; Master basic information about GMOs (genetically modified organisms); Identify food GMO items; Master the directives and laws prescribed by the Republic of Croatia and the EU related to the presence of toxic compounds in food and samples of general use. 							
	Course tv	pe	1	eaching unit				Hours	
	L	Basic concepts	Basic concepts and the fate of toxins in the body						
	L	Environmental	l impact on	food contaminat	ion			2	
	L	Additives						2	
Course content		Risky food and	risk assess	ment				1	
broken down in detail		Pesticides						1	
by weekly class	L	Natural toxins						2	
schedule (syllabus)	L	GMO food						2	
	S	Examples of co	ontaminate	d food				4	
	S	Types of risky	foods					3	
	S	Types of samp	les for toxi	cological analysis				3	
	E	Counterfeiting	food					2	
	E Food quality and forgery testing 6								
	E	Determination	of mycoto	xins				2	
Format of instruction	 ☑ lectures ☑ seminars and workshops exercises ☑ on line in entirety ☑ partial e-learning ☑ field work 								
Student	Regular cla	ass attendance							
responsibilities	Active par	ticipation in the tead	ching proce	SS					

	Password for AA	I EduHr el	ectronic identity	to a	ccess e-lea	rning					
Screening student work (name the	Class attendance		Research			(Other)				
proportion of ECTS credits for each	Experimental work		Report			(Other)				
activity so that the total number of ECTS	Essay		Seminar essay	0.5		(Other)					
credits is equal to the	Tests		Oral exam			(Other)				
course)	Written exam	2.0	Project	0.5		(Other)				
	Verification ind	icators			Success (points)		Rating	share (%)			
	Experimental w	ork (pract	ical exercises)		10			16.67			
	Seminar paper	(presenta			16.67						
Grading and	Written exam (test is 60% of c	minimum orrectly so			66.67						
evaluating student	Total				60			100			
work in class and at the final exam		RATIO OF SUCCESS AND EVALUATION									
	Achieved succe	ss C	riterion				rating				
	percentage (%)										
	60-69,9	r	ieets minimum c	riter	ia		su	fficient (2)			
	/0-79,9 average success							good (3)			
	80-89,9	a	bove average su	ccess	;		ve	ry good (4)			
	90-100	0	utstanding succe	SS			ex	cellent (5)			
Required literature (available in the	Title					copies in the library		Availability via other media			
library and via other	Sutlović D. et. al. Food toxicology. Redak 2011.						0	https://webknji			
media)					zara.hr/						
			17 1 1	<u>, ,</u>	<u> </u>		=				
Optional literature (at the time of submission of study programme proposal)	 Gibson, G.G:, Walker, R.: Food Toxicology: Real or Imaginary Problems?, Taylor & Francis LTD, London (1985). Rusell F.E., Marine Toxins ana Venomous and Poisonous Marine Plants and Animals (Intervebrates), Academic press, London, 1984. 										
Quality assurance methods that ensure the acquisition of exit competences	 Teachin Exam pa Commit Externa 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 									
Other (as the proposer wishes to add)											

NAME OF THE COURSE		Emergency in Medicine							
Code	ZSZ630				Year of study	3			
Course teacher	Mihajlo Assistan	Lojpur, t Profe	M.D., Ph ssor	n.D,	Credits (ECTS)	2			
Associate teachers	Associat bases	es fron	n teaching	g	Type of instruction	L	S	E	Т
	Mandate	0.00			Recentage of application	18		25	
Status of the course	wanuau	ΟIΥ			of e-learning	2078			
			C	OURS	E DESCRIPTION	-			
Course enrolment requirements and entry competences required for the course	No requi	iremen	ıts						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	The stud and: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	 nd: Supervise the functions of vital organs and recognize develops threatening situation, Evaluate patient's condition and take appropriate emergency measuremergencies, Implement emergency procedures for dealing with vital organ failure, Apply BLS and ALS resuscitation protocol, Identify life-threatening arrhythmias and apply AED if necessary. Establish and maintain a patent airway, Administer oxygen, Establish peripheral and/or intraosseous venous access, Use parenteral drugs, infusion solutions and blood derivatives Recognize the occurrence and type of complications during diagnor medical procedures in life-threatening patients, and apply emergence and treatment if they occur 							re unit of life- typical r other edures
	Form teach	of	edinent		Topics			Но	ours
	L		1.	Monit	oring of vital functions of	the organis	sm		1
	L		2.	Essen	tial medicines in emergen	cies			1
	L		3.	Acute	poisoning				1
	L		4.	Treat	ment of acute pain				1
	L		5.	Resus	citation of children				1
	L		6.	Acute	failure of vital organ syste	ems			2
	Ļ		/.	Shock	, Anaphylactic shock				1
Course content			<u>o.</u>	Basics	of mechanical ventilation				1 2
broken down in detail	<u> </u>		<u> </u>	Blood					2 1
by weekly class			11	Adult	resuscitation				2
schedule (syllabus)			12.	Acute	coronary syndrome				1
	L		13.	Injury	care, Burns				2
	L		14.	Identi	fication of patients requir	ing urgent	treatmen	t	1
	E		1.	Airwa	y and oxygen administrati	on			5
	E		2.	Resus scena	citation (BLS modified for rios)	hospital co	onditions	+	5
	E		3.	Patier defibr	nt monitoring, car illation and electroconver	diac arı sion	rhythmias	5,	5
	E		4.	Initial	care of the injured	-			5
	E		5.	lv and infusio	intraosseous route, adn on solutions and blood	ninistration	of drugs	,	5

Format of instruction	 ↓ lectures ↓ seminars an ↓ exercises □ on line in e □ partial e-learn □ field work 	a d worksho ntirety ling	ops	 independent multimedia laboratory √ work with (other 	assignments mentor	S		
Student responsibilities	Regular class atte Active participati Password for AA	endance ion in the f I EduHr ele	teaching proce ectronic identi	ss ty to access e-lea	arning			
Screening student	Class attendance		Research		Practical tra	aining		
proportion of ECTS credits for each	Experimental work		Report		Mastering skills in exercises			
activity so that the total number of ECTS	Essay	 	Seminar essa	у	(Othe	er)		
credits is equal to the	Tests		Oral exam		(Othe	er)		
course)	Written exam	1	Project		(Othe	er)		
	Written exam:							
Grading and	Achieved suce (%)	cess	Description of	acquired knowl	edge	Gra	ade	
evaluating student work in class and at	60-69,9	m	leets the minin	num criteria		suffici	ent (2)	
the final exam	70-79,9	av al	verage success				d (3)	
	90-100	re	emarkable succ	uccess cess		excell	ent (5)	
			Number o copies in t library	of Av	vailability via other media			
	Marko Jukić, M Lojpur. Anesthes students of medi Split: Faculty of I Chapters 1, 3, 10	aden Car siology an cine, dent Medicine,), 12, 15, 1		W So	'ebsite of the chool of Split			
Required literature (available in the library and via other	Mihajlo Lojpur. C Šimurina, Boris N and resuscitatior 446	ardiopulm Araović. G 1. Zadar: U						
library and via other media)	Gvožđak M, Tom procedures. Croa Institute of Emer	ljanović B. itian Cham gency Me		htt ma 320 cin u_i	tps://vub.hr/i ages/uploads/ 09/hitni_medi iski_postupci_ izvanbolnckim uvjetima.pdf			
	Basic Clinical skil Skills. Seattle: Platform; 2013. I	ls. In: Simu CreateSp SBN - 10: :	;					
Optional literature (at the time of submission of study programme proposal)						1		
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qui Exam passin Committee f External eva 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 						

Other (as the		
proposer wishes to		
add)		

NAME OF THE COURSE	-	Clinical Biochemistry								
Code	ZSL617		Year of study	3.						
Course teacher	Assistan Nada Bil	t professor opavlović	Credits (ECTS)	7						
Associate teachers	Assistant Šupe Do Assistant Tandara Associat basese	t professor Daniela mić t professor Leida es from teaching	Type of instruction (number of hours)	LSType of instruction (number of hours)4030						
Status of the course	Mandato	ory	Percentage of application of e-learning	Up to 10)%					
		COURS	E DESCRIPTION	1						
Course enrolment requirements and entry competences required for the course	Attende	ed classes and passed	the exam in Biochemistry II	and Phys	ical Meth	nods in M	ILD			
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After con - - - -	mpleted course stude Explain, connect and diagnosis of specific of Describe the appropri protein nitrogen com markers; Managenew analytic Explain preanalytical of biological material	nt will be able to: present the role of selected diseases; riate analytical method to pr npounds, proteins, electrolyt al techniques have better se , analytical and post-analytic l.	analytica ove the c es, lipids, nsitivity a al phases	I method oncentra hormon and speci s in bioch	l in the tion of ne es, tumoi ficity; emical te	on- r esting			
	Form		Но	urs						
		The importance of clinical (medical) biochemistry in								
			the diagnosis of disease							
		Specia	Specialist laboratories. Biological materials							
		Preanalytica	Preanalytical phase and analytical methods in clinical							
		Water an	d electrolytes, electrolyte di	sturbance	es					
		Carbobydrata	nods for testing acid-base ba	nance	tions					
		Carbonyurate	Determination of amino acid	lo lo						
		Total protein and	albumin, changes in the ser	um conc	entratior	1				
Course content	-		Serum protein electrophores	is		-				
broken down in detail			Proteins in urine							
by weekly class			Immunoglobulins							
schedule (syllabus)		Immunoche	mical methods for protein de	etermina	tion.					
		Hemoproteins	s - Hemoglobin, myoglobin ar	nd cytoch	romes					
			Bilirubin							
		Iron - metabolis	m; Laboratory parameters fo	or monito	ring iron					
		Non protoin nitr	status	fordator	mination					
		Non-protein http	a creatinine uric acid and a	en compounds; Methods for determination						
			Urinalvsis	mona						
		Enzymes: classific	cation and nomenclature of o	enzymes.	method	s				
		for determining	enzyme activity, changes in	enzyme a	ctivity in					
		serum, localizati	ion of enzymes in tissues / or	gans, loc	alization					
			of enzymes in cells							

		Haemoproteins. Hormones, Vitamins. Tumour markers. Cerebrospinal fluid, macroscopic examination, biochemical tests.						
Format of instruction	X lectures X seminars a X exercises <i>O on line</i> partial e-l field work	nd workshops in entirety earning		X independe multimedi X laboratory work with (otl	nt assignm ia mentor ner)	ents		
Student responsibilities	Regular class Active partic Password fo	attendance ipation in the t AAI EduHr ele	teaching proces ectronic identit	ss y to access e-	learning			
Screening student work (name the proportion of ECTS credits for each	Class attendance Experimenta work	0,35 I	Research Report		Practica	ll trainin	g	
activity so that the	Essay		Seminar essay	0,70		Other)		
total number of ECTS credits is equal to the	Colloquium	0,70	Oral exam		(Other)		
course)	Written exar	n 5,25	Project		(Other)		
	Verification indicators Success (points)				Part of grade (%)			
	Colloquium	dance		1			10	
	Written exa	am		7.	5		75	
	Seminar es	say		1	0		10	
Grading and	Total	RATI	O OF SUCCESS	AND EVALUA	TION		100	
work in class and at		SUCCESS I	EVA	LUATIO	N			
the final exam		FROM						
		60%			9,9% sufficient (2)			
		70%		79,9%	g	good (3)		
		80%		89,9%	very	very good (4)		
		90%		100%	exc	kcellent (5)		
		-	Title		Num copies libi	ber of in the rary	Availa othei	bility via ^r media
Required literature	Čvoriščec E biokemija. Z poglavlja)), Čepelak I. agreb: Medicir	. Ur. Štrauso Iska naklada, 2	ova medicin 009. (odabra	ska ana			
library and via other media)	Topić E, Prin ,.Medicinska kliničkoj pra poglavlia)	norac D, Jank biokemija Iksi, Medicins	ković S., Štefar i laboratorijsk ka naklada 20	nović M. i s s medicina)18., (odabra	sur. u ana			
	Čepelak I., biokemijske 2004., (odab	Štraus B., Do smjernice, Z rana poglavlja	odig S., Labar Zagreb, Medic)	B.: Medicins cinska nakla	sko da,			
Optional literature (at the time of submission of study	Tietz: Funda	mentals of Clin	ical Chemistry,	odabrana po	oglavlja			
programme proposal)	1							
Quality assurance	 Teaching 	g quality analy	sis by students	and teachers	6			

the acquisition of exit competences	Committee for control of teaching reportsExternal evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE	Basics of Transfusion Medicine and Transplantation							
Code	ZSL618		Year of study	3.				
Course teacher	Assistan Slavica D	t professor Dajak	Credits (ECTS)	7				
Associate teachers	Assistan Esma Če Associat basese	t professor čuk Jeličić es from teaching	Type of instruction (number of hours)	L 40	S 30	E 50	Т	
Status of the course	Mandate	ory	Percentage of application	Up to 10)%	1		
		COURS	E DESCRIPTION	<u> </u>				
Course enrolment requirements and entry competences required for the course	No requ	uirements						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After col - In - E - N di - N - N - U - U - U - U - Ki - Ki - Ki	 Interpret the principles of good professional practice in relation to other staff, patients and blood, cell and tissue donors; Explain laboratory safety standards; Manage a sample before, during and after immunohaematological tests and diagnostic tests for infectious diseases transmitted by blood; Manage the maintenance of laboratory equipment required for sample analysis and processing of blood, tissue and cell samples; Manage quality assurance procedures in the laboratory; Use basic tests for identification of erythrocyte antibodies; Use basic tests for detection of infectious diseases transmitted by blood; Know the basics of tests for determining the HLA antigens and antibodies system; Know the basics of the process of production of blood components; Know the basics of tissues and cells processing and storage procedures. 						
Course content broken down in detail by weekly class schedule (syllabus)	Form L	specifics of bloo transfusion med pretransfusion te immunohaemato anemia, selecti production of b diseases, treatm components use apheresis, medi legislation in tran and granulocytop compatibility syst HLA; Immunogen cell transplantat principles of cryo types of human t	Theme d donation services and h icine, ABO and RhD bloo esting, hemolytic disease blogical testing of autoin on of donors, venipun blood components, transfi nent and technical aspec e; adverse reactions to bl cal documentation and c insfusion medicine, immune benia and diagnostic method tem (HLA), biological and clir netics and solid organ and he ion, work rules in aseptic obiology, processing and st issues and cells; basics of in ant women and hemolyti lties in pretransfusion testi	ospital v d group of the f nmune h cture te usion tra ts of th ood com quality a thromboo ds, the ma ical signific enatopoi conditio orage of vitro cell unohaema ic diseas ng, manu	vards fo systems newborn nemolytic echnique insmitted ponents ssurance cytopenia ain tissue ficance o etic sten ns; basic differen culture atologica e of the	Ho r 4 , , c , d d d d d d d d d d d d d d d d d d d	<u>urs</u> 0 0	
		operations in tra for markers of blo HLA antigen 50g separation of cell	nsfusion medicine, selection bod transmitted disease, met gene and antibody, metho populations	of donor hods to d ds for is	s, testing etermine olation	5 2 /		

	E	E determining blood groups, pretransfusion testing, identification of red cell antibodies, immunohaematological testing of pregnant women, production of blood components, blood testing for markers of infectious diseases, determination of the HLA gene, antigen and antibody								
Format of instruction	X lectures X seminars a X exercises D on line partial e-1 field worl	and wor r in enti learning k	rkshops rety g			□ independe □ multimedi □ laboratory □ work with □ (otl	ent assignn a mentor ner)	nents		
Student responsibilities	Regular clas Active partio Password fo	s atten cipatior or AAI E	dance n in the t duHr ele	eaching	g proce identit	ss y to access e-	learning			
Screening student work (name the proportion of ECTS	Class attendance Experimenta	Class 1 Research attendance Research Experimental Report				Practica	al trainin	g		
credits for each activity so that the total number of ECTS	work Essay			Semina	ar essay	/ 1		Other)		
credits is equal to the ECTS value of the	Colloquium			Oral ex	am		(Other)		
course)	Viniten exa	Verification indicatorsSuccess (points)Part of grade (%)							2 (%)	
	Class attendance Colloquium Written exam					0 0 0		10 10 70		
Grading and	Seminar essay 10 10 Total 100 100 RATIO OF SUCCESS AND EVALUATION									
work in class and at the final exam	SUCCESS RATE ACHIEV			HIEVE	D (%) TO	EVA	LUATIO	N		
	P		60% 70%			69,9% 79,9%	suf	ood (3)		
			80%			89,9%	y good (4)			
			90%			100%	exc	ellent (5)	
Required literature (available in the library and via other			٦	Title			copies	ber of s in the rary	Availa othei	bility via ^r media
media)	Grgičević D. Medicinska	l sur. T naklada	ransfuzij a, Zagreb	iska meo , 2006	dicina ι	ı kliničkoj pra	ksi.			
Optional literature (at	Labar B, Hauptman i sur. Hematologija. Školska knjiga. 2007. Golubić Ćepulić B. i sur. Klinička transfuziologija. Prijetransfuzijsko ispitivanje. KBC Zagreb. 2001.									
the time of submission of study programme proposal)	smanjenim brojem leukocita. KBC Zagreb. 2001. Golubić Ćepulić B. i sur. Klinička transfuziologija: Profilaksa RhD imunizacije u trudnoći. KBC Zagreb. 2000. Golubić Ćepulić B. i sur. Klinička transfuziologija: Liječenje eritrocitnim krvnim pripravcima.								noći. KBC pravcima.	
Quality assurance	 KBC Zagreb. Teachin 	2002. Ig qualit	ty analys	sis by st	udents	and teachers	;			
methods that ensure	 Exam particular Commit 	assing r	control	of teacl	hing re	ports				

the acquisition of exit	External evaluation
competences	
Other (as the	
proposer wishes to	
add)	

NAME OF THE COURSE	Clinical Mi	inical Microbiology										
Code	ZSL619											
Study program	MLD		Year of study	3.								
Course teacher	asst. prof. V M.D., PhD, microbiolog	sst. prof. <i>Vanja Kaliterna</i> , A.D., PhD, clinical nicrobiology specialist Credits (ECTS) 5										
Associate teachers	asst. prof. <i>K</i> <i>Kraljević</i> , M microbiolog asst. prof. <i>N</i> M.D., PhD, microbiolog Associates t bases	<i>Catarina Šiško</i> I.D., PhD, clinical gy specialist <i>Aerica Carev,</i> clinical gy specialist from teaching	Type of instruction (number of hours)	L 30	S 10	CI E 75	LE	T				
Status of the course	Mandatory	Andatory Percentage of application of e- learning Up to 10%										
	-											
Objectives of the course	1. To wc 2. To dia mi 3. To pri	 To assist the student in the process of acquiring competencies for independent work in the laboratory. To introduce the student with the application and mode of performing all diagnostic methods and procedures in the identification of medically significant microorganisms. To enable students to accept the principles of safe laboratory work and prevention of laboratory infections. 										
Course enrolment requirements and entry competences required for the course	Passed exa	m Microbiology v	vith Parasitology									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After comp - De inf - Ac im - Pe inc mi - Pe - Pe - Pe - Es	 After completing the course student will be able to: Demonstrate the basic knowledge of microorganisms - causative agents infections in humans; Accept techniques and skills used in microbiological diagnosis of various medical important types of microorganisms; Perform laboratory diagnosis of bacteria that cause infections in humans, which includes media preparation, seeding, methods for identification microorganisms, antimicrobial susceptibility testing; Perform diagnosis of parasitosis; Perform diagnosis of viral infections; Perform diagnosis of viral infections; Establish the principles of safe work in the microbiological laboratory 										
	Form of teaching	In	Thematic units:	robiolog	ν.		Nu st	mber of udent nours 2				
Course content broken		Prir	nciples of safe work in mi	crobiolo	ogy.			-				
weekly class schedule	L2	Disinfectio	on and sterilization. Noso	comial	infectio	ons.		2				
(syllabus) CIE1 Laboratory infections. Principles of safe laboratory w Types of microbiological samples. General principles of storing and sending samples for microbiological proces Staining in bacteriology. Monochromatic staining. Micro of basic bacterial forms.							,	4				

	CIE2			Polych	rom	atic staining	•		5
		Media preparation, media sterility control.							
			C	ultivation o	f bac	teria, media	a types.		
	L 3	Anti	microbial	agents, prin	ciple	es of antimic	crobial susceptibilit	у	2
					tes	ting.			
	CIE3	Exan	nination o	f bacterial s	usce	ptibility to a	intimicrobial agent	s.	4
	L 4		Caus	sative agent	s of I	respiratory i	infections.		2
	CIE4		Diagno	osis of uppe	r res	piratory trac	ct infections.		4
	CIE5		Diagno	osis of lower	res	piratory trac	t infections.		4
	L 5	(Causative	agents of tu	berc	ulosis and n	nycobacteriosis.		2
	CIE6			Diagnos	is of	tuberculosi	s.		4
	L 6		Causat	ive agents o	of ga	strointestina	al infections.		2
	CIE7	Diagnosis of gastrointestinal infections.						4	
	L 7		Causa	tive agents	ofg	enitourinary	infections.		2
	CLE 8		Di	agnosis of g	enit	ourinary inf	ections.		4
	18			Anae	robic	infections.			2
	19		Causati	ve agents of	tiss	ue and wou	nd infections		2
	CLE9		causati	Diagnosis o	fana	erobic infec	tions		4
	0.25		Diag	nosis of tise	sue a	ind wound i	nfections		
	1 10	Сац	sative age	ents of Cent	ral n	ervous syste	m (CNS) infections		2
	1 11	cuu	501170 050	Diagno	sis of	f hacteremiz	a		2
		Di	iagnosis o	f CNS infect	ions	and diagnos	sis of hacteremia		4
	1 12		Serological diagnosis of infection.						
	<u> </u>			Scrological	Hen	atitis			2
	51		TORCH						
	CLE 11	Serological diagnosis of infection Ranid tests in microbiology							1
	\$ 3	Serological diagnosis of infection. Rapid tests in microbiology.						/.	
	55	SARS-CoV-2 virus infection					2		
		Molecular diagnosis of infection					2		
				Wolecular					4
			Diagnosi	e of infaction		used by yes	etc and molds		2
			Diagnosi:	Brotozoz	is ca	holminthia			4
			Dia	riolozoa	anu		sis.		2
			Dia	Blood an			cic		4
			Dia		u tis:	and tissue pr	sis.		2
			Infoctio	anc in imm		and tissue pa	hindividuale		4
			Appli	cation of mi	crob		uting work		۲
			Appii Dractical y	vork in the		nology in to	logy laboratory		5
				Dractica	lnar				3
				Flactica	i pai				4
	Blectures				⊠in	dependent	assignments		
	⊠seminars	and we	orkshops		□m	ultimedia	0		
Format of instruction:	⊠exercises				⊠la	horatory			
	<i>□on line</i> in	entire	ty			ork with me	antor		
	⊠partial e-l	learnin	g			(other)			
	□field worl	<				(other)		
	Attend class	asses ordinarily.							
Student responsibilities	Actively par	participate in teaching activities.							
	Own an act	tive password for AAI @ EduHr electro			ectronic ide	ntity (for access to	e-le	arning)	
Screening student work	Class attend	dance 0,5 Research			Practical training	2,5			
(name the proportion	Experiment	iental							
of ECTS credits for each work				Report (othe		(other)			
total number of ECTS	Essay			Seminar es	say		(other)		

credits is equal to the ECTS value of the	Tests		Oral exam		(other)					
course):	Written exam	2,0	Project		(other)					
			•							
	Verification indic	ators		Perfor (point	rmance :s)	Rating	share (%)			
	Attendance and a seminars for 100	activity % atter	at lectures and ndance		10	10.00				
	Written exam				40		40.00			
	Practical work				50		50.00			
Grading and evaluating	In total				100		100.00			
and at the final exam			RATIO OF SUCCES	S AND EV	ALUATION					
	Achieved succe	SS	Criterion				Mark			
	percentage (%	5)								
	60 - 70.9		meets the minimur	m criteria		ડા	ufficient (2)			
	71 - 80.9		average success				good (3)			
	81 - 90.9		above-average suc	cess		Ve	very good (4)			
	91 - 100		exceptional succes	s		e	xcellent (5)			
		т	ïtle	Number o copies in t library		Availability via other media				
Required literature (available in the library and via other media)	Written materials Kalenić S i sur Me Zagreb:Medicinska Bichter B. Medicin	(hando edicinsk a naklao ska par	uts) from lectures. ka mikrobiologija. 2 da, 2019.	. izd.			on the website Merlin platform Course Clinical microbiology			
	A B D 2002	зка раі	asitologija. 0. izu. i	VIELKUI						
	Presečki V i sur naklada; 2002.	. Virol	ogija. Zagreb: Mo	edicinska						
Optional literature (at the time of submission of study programme proposal)	Tonkić M., Dobec M., Abram M. i sur. Jawetz, Melnick & Adelberg Medicinska mikrobiologija. Split: Placebo, 2015. Uzunović-Kamberović S, ur. Medicinska mikrobiologija. Zenica : Štamparija Fojnica, 2009.									
Quality assurance methods that ensure the acquisition of exit competences	 Teaching Exam pas Committe External e 	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 								
Other (as the proposer wishes to add)										

NAME OF THE COURSE	SE Laboratory Haematology and Coagulation									
Code	ZSL620	.620 Year of study 3.								
Course teacher	Assistar Nada Bi	it professor Iopavlović	Credits (E	CTS)	6					
Associate teachers	Assistar Leida Ta Associat basese	it professor indara tes from teaching	Type of instruction (number of hours)		L 30	S 15	E 60	Т		
Status of the course	Mandat	andatory Percentage of application Up to 10% of e-learning								
		COURS	E DESCRIPT	ION	<u>ı</u>					
Course enrolment requirements and entry competences required for the course	Attend	Attended classes and passed the exam in Basics of Hematology and Coagulation								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - Op ha - De sy - De ad - De - Op - Op - De	 Operate automated haematology analysers; Describe preanalytical and analytical interferences in morphological laboratory haematology; Describe the internal control system with commercial bloods of different analytical systems in laboratory haematology; Describe the morphological characteristics of blood cells in peripheral blood smears in adults, children and infants; Describe disorders which do not require cytochemical diagnostics; Operate automated devices for measuring the erythrocyte sedimentation rate; Define conditions for sampling, storage and sample preparation for haemostasis tests. 								
Course content broken down in detail by weekly class schedule (syllabus)	Form	- Define conditions for sampling, storage and sample preparation for naemostasis tests Form Theme Hours 1. Introduction to laboratory haematology- sampling, interference; 2.Hematology analysers, measuring principles, internal analytical control system 3.Hematology parameters in differential diagnosis of anaemia 4.Morphological characteristics of red blood cells in anaemia, determination of reticulocytes 5. Classification of leukocytes on haematology analysers 6. Morphological characteristics of leukocyte populations and platelets morphology 7. Preanalytical factors in haemostasis diagnostics. 8. Global haemostasis tests 9. Automated coagulometers and internal quality control system 10. Platelet aggregation 11. POCT devices in laboratory tests of haemostasis								
Format of instruction	X lectur X semin X exerci D on partia	X lectures X independent assignments X seminars and workshops Imultimedia X exercises X laboratory Imultimedia Imultimedia X partial e-learning Imultimentor Imultimedia Imultimedia X laboratory Imultimentor Imultimedia Imultimentor Imultimentor Imultimentor								
Student responsibilities	Regular Active p Passwo	Image: Constraint of the second se								

Screening student work (name the proportion of ECTS	Class attendar Experime	ice ental	0,3	Resear Report	rch		Practica	al trainin	g		
credits for each activity so that the	work Essay			Semina	ar essay	0,6	(Other)			
total number of ECTS credits is equal to the	Colloquiu	um	0,6	Oral ex	kam	4,5	(Other)			
ECTS value of the course)	Written e	exam		Projec	t		(Other)			
		Verific	cation indic	cators		Success (po	ints)	nts) Part of grade (%)			
	Class at	ass attendance 5 🔺 5									
	Colloqu	Iloquium 10 10									
	Writter	ritten exam 10 10									
	Semina	r essay				75			75		
Grading and	Total	tal 100 100									
evaluating student			RATI	O OF SU	JCCESS A	ND EVALUAT	ION			•	
work in class and at		SUCCESS RATE ACHIEVED (%) EVALUATION									
the final exam		FROM TO									
		60% 69,9%					suf	ficient (2)		
			70%		7	9,9%	g	ood (3)			
			80%		8	9,9%	ver	y good (4	+)		
			90%		1	.00%	exc	ellent (5)		
Required literature (available in the library and via other			•	Title			Num copie lib	ber of s in the rary	Availa othe	bility via r media	
media)	Boris Lab	oar i sur.	. Hematolo	gija, Ško	olska knj	iga; 2017					
Optional literature (at the time of submission of study programme proposal)	McKenzi	McKenzie,Shirlyn B. Clinical Laboratory Hematology, 2014 odabrana poglavlja									
Quality assurance	 Teac 	hing qu	ality analy	sis by st	udents a	nd teachers					
methods that ensure	Exar	 Exam passing rate analysis 									
the acquisition of exit	 Committee for control of teaching reports 										
competences	External evaluation										
Other (as the proposer wishes to add)											

Code ZS1621 Year of study 3 Course teacher Prof. Irena Drmić Hofman, PhD Credits (ECTS) 5 Associate teachers Assist. Prof. Sendi Kuret, PhD Assist. Prof. Antonela Matana, PhD I S Associates from teaching bases Mandatory Percentage of application of e-learning Up to 10% Course enrolment required for the course Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Learning outcomes - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Learning outcomes - Explain the structure and function of nereditary material in humans (DNA, RN chromosomes, genome) - Learning outcomes - Explain the structure and function of nereditary material in humans (DNA, RN chromosomes, genome) - Learning outcomes - Explain the structure and function of nereditary material in humans (DNA, RN chromosomes, genome) - Learning outcomes - Explain the structure and function of nereditary material in humans (DNA, RN chromosomes, genome) - Learning outcomes - Explain the structure and function of necular diseases, infectious for molecular at based (isolation and analysis of DNA and RNA, PCR and variants, methods in differe of molecular diagnostics (monogenic dise	Code Course teacher								
Course teacher Prof. Irena Drmić Hofman, PhD Credits (ECTS) 5 Assist. Prof. Sendi Kuret, PhD Assist. Prof. Antonela Matana, PhD Associates from teaching bases Type of instruction (number of hours) L S Status of the course Mandatory Percentage of application of e-learning Up to 10% Course enrolment requirements and entry competences required for the course - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Distinguish basic patterns of human inheritance (Mendel and non-Mendel); - Classify basic methods of molecular biology with application in medicine; - Explain the principles on which the most important methods for molecular based (isolation and analysis of DNA and RNA, PCR and variants, methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensite medicine); - Perform the basic molecular methods (DNA and RNA PCR and variants, methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensite medicine); - Perform the basic molecular methods (DNA and RNA PCR, ACR and variants, methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensite medicine); - Perform the basic molecular methods (DNA and RNA PCR, ACR and variants, methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensite medicine); - Perform the basic molecular methods (DNA and RNA PCR, QPCR, ag electrophoresis). L L1 Introduction to Genetics and Genomics S S1 Structure of t	Course teacher								
Assist. Prof. Sendi Kuret, PhD Assist. Prof. Vanja Kaliterna, MD, PhD Assist. Prof. Antonela Matana, PhD Associates from teaching bases Type of instruction (number of hours) 25 25 4 Status of the course Mandatory Percentage of application of e-learning Up to 10% Course enrolment requirements and entry competences required for the course No requirements No requirements - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Distinguish basic patterns of human inheritance (Mendel and non-Mendel); - Classify basic methods of molecular biology with application in medicine; - Explain the principles on which the most important methods for molecular ar based (isolation and analysis of DNA and RNA, PCR and variants, methods with o Describe and analyses of DNA and RNA, PCR and variants, methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensic medicine); - Perform the basic molecular methods (DNA and RNA isolation, PCR, QPCR, ag electrophoresis). Teaching Methods Topic L L1 Introduction to Genetics and Genomics S S1 Structure of the human genome L L2 Overview of the structure and function of nucleic acids. DNA mutations									
Status of the course Mandatory Percentage of application of e-learning Up to 10% Course enrolment requirements and entry competences required for the course No requirements No requirements - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Distinguish basic patterns of human inheritance (Mendel and non-Mendel); - Classify basic methods of molecular biology with application in medicine; - Explain the principles on which the most important methods for molecular ar based (isolation and analysis of DNA and RNA, PCR and variants, methods with enzymes, hybridization, sequencing, cloning, cytogenetic and proteomic method - Describe and analyze the plan for application of molecular methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensic medicine); - Perform the basic molecular methods (DNA and RNA isolation, PCR, QPCR, ag electrophoresis). Image: L L Introduction to Genetics and Genomics Image: L L Introduction to Genetics and Genomics Image: L L 2 Overview of the structure and function of nucleic acids. DNA mutations	Associate teachers	E T							
Course enrolment requirements and entry competences required for the course No requirements - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) Learning outcomes expected at the level of the course (4 to 10 learning outcomes) - Explain the principles on which the most important methods for molecular ar based (isolation and analysis of DNA and RNA, PCR and variants, methods with enzymes, hybridization, sequencing, cloning, cytogenetic and proteomic method - Describe and analyze the plan for application of molecular methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensic medicine); - Perform the basic molecular methods (DNA and RNA isolation, PCR, QPCR, ag electrophoresis). Teaching Methods Topic L L1 Introduction to Genetics and Genomics S S1 Structure of the human genome L L2 Overview of the structure and function of nucleic acids. DNA mutations	Status of the course								
Course enrolment requirements and entry competences required for the course No requirements - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Distinguish basic patterns of human inheritance (Mendel and non-Mendel); - Classify basic methods of molecular biology with application in medicine; - Explain the principles on which the most important methods for molecular ar based (isolation and analysis of DNA and RNA, PCR and variants, methods with enzymes, hybridization, sequencing, cloning, cytogenetic and proteomic method - Describe and analyze the plan for application of molecular methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensic medicine); - Perform the basic molecular methods (DNA and RNA isolation, PCR, QPCR, ag electrophoresis). Teaching Methods Topic L L1 Introduction to Genetics and Genomics S S1 Structure of the human genome L L2 Overview of the structure and function of nucleic acids. DNA mutations									
- Explain the structure and function of hereditary material in humans (DNA, RN chromosomes, genome) - Distinguish basic patterns of human inheritance (Mendel and non-Mendel); - Classify basic methods of molecular biology with application in medicine; - Classify basic methods of molecular biology with application in medicine; - Explain the principles on which the most important methods for molecular ar based (isolation and analysis of DNA and RNA, PCR and variants, methods with enzymes, hybridization, sequencing, cloning, cytogenetic and proteomic method. 0 f the course (4 to 10 learning outcomes) 0 f the course (4 to 10 learning outcomes) - Describe and analyze the plan for application of molecular methods in differe of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensic medicine); - Perform the basic molecular methods (DNA and RNA isolation, PCR, QPCR, ag electrophoresis). Teaching Topic L L1 Introduction to Genetics and Genomics S S1 Structure of the human genome L L2 Overview of the structure and function of nucleic acids. DNA mutations	Course enrolment requirements and entry competences required for the course								
Teaching Methods Topic L L1 Introduction to Genetics and Genomics S S1 Structure of the human genome L L2 Overview of the structure and function of nucleic acids. DNA mutations	Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	chromosomes, genome) - Distinguish basic patterns of human inheritance (Mendel and non-Mendel); - Classify basic methods of molecular biology with application in medicine; - Explain the principles on which the most important methods for molecular analysis are based (isolation and analysis of DNA and RNA, PCR and variants, methods with restriction enzymes, hybridization, sequencing, cloning, cytogenetic and proteomic methods); - Describe and analyze the plan for application of molecular methods in different segments of molecular diagnostics (monogenic diseases, infectious diseases, oncology, pharmacogenetics, forensic medicine); - Perform the basic molecular methods (DNA and RNA isolation, PCR, QPCR, agarose gel electrophoresis)							
Course contentbroken down in detailby weekly classschedule (syllabus)LLL <t< td=""><td>Course content broken down in detail by weekly class schedule (syllabus)</td><td>No. of student hours 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td></t<>	Course content broken down in detail by weekly class schedule (syllabus)	No. of student hours 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							

		-			-					
	S	S S9 Prenatal and postnatal diagnosis of monogenic diseases								
	L	L10 Molecu	ılar diagnosis of	tumors				2		
	S	S10 Molecu	lar analysis of h	ereditary	and no	on-heredit	ary tumor	2		
		forms								
	L	L11 Molecu	ılar techniques i	n microo	rganisn	n identifica	ation	2		
	S	S11 Molecu	ılar analysis of g	enome- v	whole g	enome an	alysis	2		
	L	L12 Molecu	ılar techniques i	n pharma	acogeno	omics		2		
	S	S12 Molecu	lar cytogenetics	5				2		
	L	L13 Genetic	c counseling and	ethical a	aspects	of genetic	testing	1		
	S	S13 Molecu	ılar analysis in fo	orensic m	edicine	2		1		
	E	E1 Isolatior	of DNA from a	blood sa	mple			3		
	E	E2 Isolation	of DNA from pa	araffin-er	nbedde	ed tissue		3		
	E	E3 Isolation	of RNA from a	blood sar	nple			3		
	E	E4 Analysis	of DNA and RN	A quality	and co	ncentratio	n	3		
	E	E5 Creating	primers for PCI	R analysis				3		
	E	E6 Preparat	tion of mixture f	or PCR; F	CR ana	lysis for sp	pecific	3		
		genes								
	E	E7 Electrop	horesis of DNA	and PCR	product	ts		3		
	E	E8 DNA sec	luencing (by Sar	iger and I	NGS)			3		
	E	E9 Analysis	of sequencing r	esults				3		
	E	E10 Geneti	c Databases					3		
	E	E11 Whole	genome analys	es				3		
	E	E12 Prepar	ing and basic rea	ading of k	aryoty	pes		4		
	E	E13 Use of reference management tools						3		
	x□ lectures	ectures								
	x seminars	□ seminars and workshops								
	x exercises				media					
Format of Instruction	🗆 on line i	n entirety		L labora	itory					
	🗆 partial e-le	arning		□ work \	with me	entor				
	☐ field work	5			(other)					
	Attend classe	s ordinarily.								
Student	Actively partie	cipate in tea	ching activities.							
responsibilities	Own an active	e password f	or AAI @ EduHr	electron	ic ident	ity (for acc	cess to e-le	earning)		
Screening student	Class									
work (name the	attendance	0,5	Research			Practical t	raining			
proportion of ECTS	Experimental	1,5	Dement							
credits for each	work		Report							
activity so that the	Essav		Seminar essay	,		(Ot	her)			
total number of ECTS	ESSUY		Serimar C35a	·		(01	incry			
credits is equal to the	Tests		Oral exam			(Ot	her)			
ECTS value of the	Written exam	3	Project			(Ot	her)			
		Evaluation	indicator	1	Succe	cc	Share in	grade (%)		
		LValuation	malcator		(noint	-c)	Share in	grade (70)		
	Attendance	and activity	at lectures and		(point	5		10		
	seminars for	100% atten	dance			5		10		
Grading and	Experimenta	iminals for 100% attendance					1	30		
evaluating student	Written exam ***					30		60		
work in class and at	Total					100	1	100		
the final exam							1			
	RATIO OF SUCCESS AND EVALUATION									
	Achieved					[Grade		
	nercenta	Juccess age (%)		Citterid				Graue		
	percente	aβe (/0)								

	65-74	meets the minimum criter	ia		sufficient (2)	
	75-82			good (3)		
	83-92	above-average success			very good (4)	
	93-100			excellent (5)		
		er of in the iry	Availability via other media			
Required literature (available in the	1. RJ Trent. Molecular Academic Press, 2012.	medicine (4. edition), Elsevier				
library and via other	2. Methods in molecula	ar Biology, Institute Ruđer				
media)	Bošković, A. Ambriović Ris					
	3. Handbook for semina	ars and exercises from the				
	course Molecular Biology	Techniques in Medicine, UDHS,				
	2022.					
Optional literature (at	1. Written materials of the	he lecturer				
the time of	2. Buckingham L. Molecu	ular Diagnostics: Fundamentals, N	1ethods,	and Cl	inical Applications	
submission of study	3rd Edition, F.A. Davis Co	mpany; 2019.				
programme proposal)						
Quality assurance	 Teaching quality anal 	ysis by students and teachers				
methods that ensure	 Exam passing rate an 	alysis				
the acquisition of exit	 Committee for control 	ol of teaching reports				
competences	 External evaluation 					
Other (as the proposer wishes to add)						

NAME OF THE COURSE	Ξ	Laboratory Immun	anology and Immunochemistry										
Code	ZSL622		Year of study 3										
Course teacher	Assistan Čečuk, F	t professor; Esma PhD	Credits (ECTS)	5									
	Associat	es from teaching	Turne of instance time	1	S	F	т						
Associate teachers	bases	inumber of hours) 20 15 50											
Status of the course	Mandat	ory	Percentage of application 10%										
	L	COURS											
Course enrolment requirements and entry competences required for the course	No requ	requirements											
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - - - - Set prio and com	ompleting the course, students will be able to: Explain the organization of the immune system; Connect the organization of the immune system; Present the organization of the immune system; Explain the terminology essential for performance of analytical procedures in laboratory diagnostics; Perform immunoassays in biological material; orities in the process of collecting and storing samples for determining the antibor melement concentration.											
Course content broken down in detail by weekly class schedule (syllabus)	L L L L L L L L L L L L S S S S S S S S S S S S S	Immunoreaction, Antibodies Antigenes Complement Cytokines Anitgen – antibod Laboratory immur Immunochemistry Immunochemistry Major human hist Biological role of H Peptide processin Natural killer cell n Limphatic organs a Auto-antibodies Interleukin 6 HLA genes and au Golden standards Antibodies product Quality control in Immunochemical Molecular method Microlymphocytor determination Reagens preparati ELISA test specific Multiplex technologic Immuofixation	nonspecific immunity, specific immunity, specific immunity, specific immunity, specific is reaction nodiagnostics methods in laboratory med methods standardization ocompatibility complex that system g and presentation receptors –KIR and tissues toimmune diseases in solid organ transplantatic ction immunochemistry interaction interferences ds for HLA allele determinati toxicity test – serology meth ion for immunchemistry ana ity and sensitivity ogy	fic immur licine licine on on on on on PCR- od for HL lysis	-SSO -SSO A antige	2 1 1 1 1 1 1 1 2 3 2 2 2 2 2 2 2 2 2 2							
	E E	Indirect immunoflourescence											

	E I	Molecular	met	hods for HLA a	llele	determinati	ion – PC	R-SSP		5
	E	Serum scre	enir	ng						5
Format of instruction	 lectures seminars exercises on line partial e-lipartial e-lipartial work 	and work a in entirety earning	shor	55	□ in □ m □ 1 □ w	ndependent nultimedia laboratory vork with me (other	assignm entor)	nents		
Student responsibilities	Attend class Actively part Own an activ	es ordinari icipate in t ve passwor	ly. eacl d fo	ning activities. r AAI @ EduHr	elec	tronic ident	ity (for a	access to	e-lear	ning)
Screening student work (name the	Class 0,33 Research						Practica	al trainin	g	
proportion of ECTS credits for each	Experimental 0,2 Report									
activity so that the total number of ECTS	Essay 0,13 Seminar essay 0,33						(Other)		
credits is equal to the ECTS value of the	Tests Oral exam							Other)		
course)	Written exam 4 Project							Other)		
	Achieved success Grading criteria percentage (%) 65-74 65-74 meets minimum criteria 75-82 average success 83-92 above average success						sufficient (2) good (3)			
	03 100		dL	soptional succ		55		very go	$\frac{1000(4)}{001(5)}$	
Grading and	93-100				ESS FSS		ΔΤΙΟΝ	excelle	iit (5)	
evaluating student work in class and at the final exam		/erificatio	n inc	licators		Perform (point	ance ts)	Share	e in gra	ıde (%)
	Class atten	dance and	acti	vity		5	6,67			
	Seminar es	say				5		6,67		
	Experiment	al work				3		4		
	Essay					2		2,67		
	Written exa	am				60		80		
	In total					75		100		
Required literature (available in the				Title			Num copies lib	ber of s in the rary	Avail oth	ability via er media
library and via other	Andreis - Im	unologija, l	Vied	icinska naklada	a, 20	04				
meula)	Dodig S. Imu	покетија,	wee		a, za	agreb, 2015				
Optional literature (at the time of submission of study programme proposal)	Holmes KL, Otten G, Yokoyama WH: Flow cytometry analysis using the Becton Dickinson FACS Calibur. Current protocols in immunology, 2002.							ckinson		
Quality assurance methods that ensure the acquisition of exit competences	 Teaching Exam pa Commit External 	g quality an Issing rate tee for con evaluatior	naly: anal itrol n	sis by students lysis of teaching rep	and	teachers s				
Other (as the proposer wishes to add)										

NAME OF THE COURSE	Ξ	Automation in MLD									
Code	ZSL623	SL623 Year of study 3.									
Course teacher	Daniela S Assistan	Šupe-Do t profess	mić, PhD, sor	Credits (EC	CTS)	2					
Associate teachers	Nada Bil Assistan mag. Pet Specialis Medicine mag. Br Europea Laborato (EuSpLN	opavlovi t profess tra Filipi, it in Labo e (EuSpL anka Kre n Specia ory Medi 1)	ć, PhD, sor European pratory M) ešić, list in icine	Type of ins (number o	struction f hours)	6	S 4	E 25	Т		
Status of the course	Mandato	ory		Percentage of e-learni	e of application	Till 10%					
	-		COU								
Course enrolment requirements and entry competences required for the course	No requi	o requirements									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	- - - - -	 Explain the operating principles in preanalytical automation and robotics Explain the operating principles of different analysers in the analytical procedure Prepare the analysers for analytical procedure in the clinical laboratory; Perform controlling of the proper operation of device Assess the role and importance of information technology (laboratory and hospital information system) in the organization of biochemical laboratory. 									
Course content broken down in detail by weekly class schedule (syllabus)	L,S,E L,E L,S,E L,S,E L,S,E		Application Auto	of automatic a dia Immunoche Flow mation in hem Biochem	analyzers in med gnostics emistry analyzers cytometry natology and coa nical analyzers	lical labor s gulation	atory	2,1 1,1 1,1 1,1 1,1	,5 5 ,5 ,5 ,5		
Format of instruction	x lecture x semina x exercis on partia	c lectures x independent assignments c seminars and workshops Imultimedia c exercises Imultimedia Imultimedia Imultimedia Imultimedia									
Student responsibilities	Attend c Actively Own an	Attend classes ordinarily. Actively participate in teaching activities. Own an active password for AAI @ EduHr electronic identity (for access to e-learning)							;)		
Screening student work (name the proportion of ECTS	Class attendar Experim	nce ental	0,22	Research		Practical	training				
credits for each	work			Report							
activity so that the total number of ECTS	Essay			Seminar essa	y	(0	ther)				
credits is equal to the	Tests		0,44	Oral exam		(0	ther)				

ECTS value of the course)	Written exam	1,33	Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam					
		-	Fitle		Number of copies in the library	Availability via other media
	 B. Štraus, J. Pe laboratoriju Čvorišćec, I. Č 	trik : Auto u Štrauso epelak Meo				
	E. Topić, D. Prim Medicinskobioke dopunjeno i izmi Zagreb, 2018.	orac, S. Jan emijska dija jenjeno izc	iković, M. Stefar agnostika u klinić lanje, Medicinsk	nović i sur. čkoj praksi, 2. ra naklada,		
Required literature (available in the library and via other	I. Čepelak, B. Lak biokemijske smje <i>2004.</i>	oar, B. Štrai ernice, <i>Me</i> i				
media)	L. Thomas Clinica 1998.	al Laborato				
	Laboratorijske p komora medicin Dunja Rogić	retrage uz skih bioker				
	Rogić D. Pretrago budući razvoj u F laboratorijem», biokemičara, Zag i Ana Stavljenić-F	e uz bolesn Priručnik «G Hrvatska ko greb, 2004. Rukavina	ika: iskustva iz k Drganizacija i up omora medicinsl Urednice: Dubr	KBC Zagreb i ravljenje kih avka Čvorišćec		
Optional literature (at the time of submission of study programme proposal)	C.P. Price, A. St.J Tietz Textbook o Elsevier Saunder <u>NACB Laborator</u> <u>National Acaden</u> <u>Guidelines: Hom</u> <u>NACB Laborator</u>	ohn Point- f Clinical C s, 2018. <u>7 Medicine</u> ny of Clinica epage: www 7 Medicine	-of-care testing. hemistry and mo <u>Practice Guideli</u> al Biochemistry <u>w.aacc.org</u> <u>Practice Guideli</u>	U C.A. Burtis, E blecular Diagno ines: Evidence- Published Labo ines: The Natio	E.R. Aschwood, E ostics. 8. izdanje. <u>based Practice for oratory Medicine</u> nal Academy of	o.E. Burns, ur. St. Luis: <u>or POCT. The</u> <u>Practice</u> <u>Clinical</u>
	Biochemistry Pul www.aacc.org ko	<u>blished Lab</u> oji se odno	ooratory Medicir se na automatiz	<u>ne Practice Gui</u> aciju rada u lat	<u>delines: Homepa</u> ooratoriju	<u>ge:</u>
Quality assurance methods that ensure the acquisition of exit competences	 Teaching qu Exam passin Committee External eva 	ality analys g rate anal for control luation	sis by students a ysis of teaching repo	nd teachers orts		
Other (as the proposer wishes to add)						

NAME OF THE COURSE	:	Quality	y Control i	n MLD	MLD					
Code	ZSL624			Year of stu	ldy					
Course teacher	Daniela S Assistan	Šupe-Do t profess	mić, PhD, sor	Credits (EC	CTS)	2				
Associate teachers	Slavica D professo mag. Lao Specialis Medicino Biljana B oec. Nina Ipa	Slavica Dajak, PhD, Assistant professor mag. Lada Stanišić, European Specialist in Laboratory Medicine (EuSpLM) Biljana Berda, univ. spec. oec. Nina Ipavec, dr. med.			struction f hours)	L 6	S 4	E 25	Т	
Status of the course	Mandato	ory		Percentag of e-learni	e of application ng	Till 10%				
			COU	RSE DESCRIPT	ION					
Course enrolment requirements and entry competences required for the course	No requi	No requirements								
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Prepare control samples of biological material Perform daily and external quality control of defined analytes Explain the importance of keeping logs to control inaccuracies and imprecisions Know how to prepare a pool of serum Describe the organizational and technical requirements of the internationa standard of the quality management system in the laboratory for transfusion modicing 					sions ational sfusion				
Course content broken down in detail by weekly class schedule (syllabus)	L,S,E L,S,E L,E L,S,E L,S,E	Co	Qu Analytical p ntrol of equ Po	ality control i hase - control uipment and s re st-analytical p External Laborator	ty control in preanalytical phase. 1,1,3 se - control of inaccuracy and imprecision 1,1,5 ment and supplies. Control of reactions and 1,5 reagens. 1,5 analytical phase. Quality Manual 1,5 External quality control 1,1,4 Laboratory accreditation 113				<u>,3</u> ,5 5 .,4 ,3	
Format of instruction	x lectures x seminars and workshops x exercises on line in entirety partial e-learning field work				x independent assignments multimedia laboratory work with mentor (other)					
Student responsibilities	Attend classes ordinarily. Actively participate in teaching activities. Own an active password for AAI @ EduHr electronic identity (for access to e-learning)					;)				
Screening student work (name the	Class attendar	nce	0,22	Research		Practical	training			
proportion of ECTS credits for each	Experime work	ental		Report						
activity so that the total number of ECTS	Essay			Seminar essa	Ý	(0	ther)			

ECTS value of the course)	Written exam	1,33	Project		(Other)			
Grading and evaluating student work in class and at the final exam	Written exam	Written exam						
		T	litle		Number of copies in the library	Availability via other media		
Required literature (available in the library and via other media)	E. Topić, D. Prir Medicinskobio 2. dopunjen naklada, Zagro	morac, S okemijska o i izmij eb, 2018.						
	D. Čvorišćec, I. Č Medicinska nakla	epelak Štra ada, Zagreł						
	A. Stavljenić Ruk upravljanje u me trajno usavršava biokemičara, Me	. Stavljenić Rukavina, D. Čvoriščec Organizacija i pravljanje u medicinskom laboratoriju Priručnik za ajno usavršavanje Hrvatske komore medicinskih iokemičara. Medicinska naklada Zagreb. 2004						
	S. Galjanić, I. Vul medicinko-bioke usavršavanje Hrv Medicinska nakla	J. Galjanić, I. Vukasović, Z. Flegar-Meštrić Akreditacija nedicinko-biokemijskog laboratorija. Priručnik za trajno Jsavršavanje Hrvatske komore medicinskih biokemičara, Medicinska naklada, Zagreb, 2010.						
	J. Sertić i sur. Klir kliničkoj praksi, 2 Medicinska nakla	nička kemij 2. dopunje ada, Zagrel						
	Laboratory Quali WHO, Clinical ar 2011.	ity Manage nd laborato	ment System Ha bry standards ins	andbook, stitute (CLSI),				
Outing al literature (at								
the time of submission of study programme proposal)	W.G. Guder, S. N the Laboratory: 4th, Updated Ed	larayanan, The Impact ition, Git V	H. Wisser, B. Za of Preanalytica werlag GMBH, 2	wta Diagnostio I Variables on t 009.	c Samples: From he Quality of Lab	the Patient to poratory Results,		
Quality assurance	 Teaching qu 	ality analys	sis by students a	nd teachers				
methods that ensure	 Exam passin Committee i 	g rate anal	ysis of tooching ron	orte				
competences	 External eva 	luation		5115				
Other (as the proposer wishes to add)								

NAME OF THE COURSE	ME OF THE COURSE Clinical Skills III								
Code	ZSL617			Year of stu	ıdy	3.			
Course teacher	Daniela Assistan	Šupe-Do t profess	omić, PhD, sor	Credits (EC	CTS)	7.			
	Associates from teaching			Type of ins	struction	L	S	PCE	CE
Associate teachers	bases			(number c	(number of hours)		10	125	
Status of the course	Mandat	ory		Percentag of e-learni	rcentage of application Till 10%				
		COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	No requ	No requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After co - Develo - Develo - Develo - Develo - Develo - Develo - Explair	After completing the course the student will be able to: Develop the skill for working with biochemical analyzers Develop the skill for working with immunochemical analyzers Develop the skill for working with hematology analyzers Develop the skill of working with immunohematological analyzers Develop the skill of working with coagulation analyzers Develop the skill for working with molecular analyzers Explain the operation of the flow cytometer							
Course content broken down in detail by weekly class schedule (syllabus)	L,SOrganization of medical laboratory services, collection, processing and storage of collected samplesEClinical skills in medical biochemistry laboratoryEClinical skills in transfusion centerEClinical skills in pathohistological and citology laboratoryEClinical Skills in microbiological laboratoryEClinical skills in laboratory for molecular diagnosticsEVisit to a fully automated laboratory and field teaching					10, 45 20 10 15 10 25	10 5 0 0 5 0 5 0		
Format of instruction	x lecture x semini x exercis on x partial x field w	es ars and v ses <i>line</i> in e e-learni vork	vorkshops ntirety ng		independent assignments multimedia x laboratory work with mentor (other)				
Student responsibilities	Attend of Actively Own an	classes o participa active pa	rdinarily. ate in teach assword fo	ning activities. r AAI @ EduHı	electronic ident	ity (for ac	cess to e	-learning).
Screening student	Class attenda	nce	1	Research		Practical	training		
proportion of ECTS credits for each	Experim work	ental		Report					
activity so that the	Essay			Seminar essa	y	(O	ther)		
credits is equal to the	Tests		6	Oral exam		(0	ther)		
ECTS value of the course)	Written	exam		Project		(O	ther)		
Grading and evaluating student	Written	Vritten exam							

work in class and at the final exam			
	Title	Number of copies in the library	Availability via other media
Required literature (available in the library and via other media)	C.A. Burtis, E.R. Aschwood, D.E. Burns, ur. Tietz Textbook of Clinical Chemistry and molecular Diagnostics. 8. izdanje. St. Luis: Elsevier Saunders, 2018, odabrana poglavlja		
	E. Topić, D. Primorac, S. Janković, M. Stefanović i sur. Medicinskobiokemijska dijagnostika u kliničkoj praksi, 2. dopunjeno i izmijenjeno izdanje, Medicinska naklada, Zagreb, 2018.		
	D. Čvorišćec, I. Čepelak Štrausova Medicinska biokemija, Medicinska naklada, Zagreb, 2009.		
Optional literature (at the time of submission of study programme proposal)	W.G. Guder, S. Narayanan, H. Wisser, B. Zawta Diagnostic the Laboratory: The Impact of Preanalytical Variables on th 4th, Updated Edition, Git Vwerlag GMBH, 2009.	Samples: From ne Quality of Lak	the Patient to poratory Results,
Quality assurance methods that ensure the acquisition of exit competences	 Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports External evaluation 		
Other (as the proposer wishes to add)			

NAME OF THE COURSE	E Urgent Laboratory Diagnostics								
Code	ZSL625			Year of stu	study 3.				
Course teacher	Daniela S Assistan	Šupe-Do t profess	mić, PhD, sor	Credits (E	CTS)	2.	2.		
Associate teachers	Sanda St Assistan	ojanović t profess	ć Stipić, PhE sor), Type of in (number o	ype of instruction number of hours)		S 5	E 15	Т
Status of the course	Elective			Percentag of e-learni	Percentage of application Till 10%				
	COURSE DESCRIPTION								
Course enrolment requirements and entry competences required for the course	No requi	No requirements							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	After cor - Explain - Presen - Explain - Explain - Interpr	After completing the course the student will be able to: Explain the program of emergency laboratory tests Present the program of emergency laboratory tests Explain the selection of urgent tests for individual certain emergencies Explain the results of emergency analyzes in individual conditions Interpret and recognize changes in laboratory findings in acute complications							
	L	L Classification of laboratory tests within urgent diagnosis: very 2							
	L,S,E	L,S,E Test selection in clinical laboratory medicine for evaluation of 2,1,3 emergency patients							
Course content broken down in detail	L,S,E Selection of urgent tests, time sequence of monitoring their 2,1 changes							2,1	,3
by weekly class schedule (syllabus)	L,S,E Planned diagnostic procedures, establishing the final diagnosis and monitoring of treatment							2,1	,3
	L,S,E Device selection 1,1,3								,3
	L,S,E Advantages and disadvantages of POCT 1,1,3								
Format of instruction	x lectures x seminars and workshops x exercises on line in entirety partial e-learning				 independent assignments multimedia laboratory work with mentor (other) 				
Student responsibilities	Attend c Actively Own an	lasses of participa active pa	rdinarily. ate in teach assword for	iing activities. AAI @ EduH	r electronic ident	ity (for ac	cess to e	-learning).
Screening student work (name the	Class attendar	nce		Research		Practical	training		
proportion of ECTS credits for each	Experim work	ental		Report					
activity so that the total number of ECTS	Essay			Seminar essa	у	(0	(Other)		
credits is equal to the	Tests			Oral exam		(0	ther)		
course)	Written	exam	2.0	Project		(0	ther)		
Grading and evaluating student	Written	/ritten exam							

work in class and at the final exam			
	Title	Number of copies in the library	Availability via other media
Required literature (available in the library and via other media)	 E. Topić, D. Primorac, S. Janković, M. Stefanović i sur. Medicinskobiokemijska dijagnostika u kliničkoj praksi, 2. dopunjeno i izmijenjeno izdanje, Medicinska naklada, Zagreb, 2018. 		
	J. Sertić i sur. Klinička kemija i molekularna dijagnostika u kliničkoj praksi, 2. dopunjeno i izmijenjeno izdanje, Medicinska naklada, Zagreb, 2015.		
	D. Čvorišćec, I. Čepelak Štrausova Medicinska biokemija, Medicinska naklada, Zagreb, 2009.		
	J. Sertić Katalog dijagnostičkih laboratorijskih pretraga s primjerima iz kliničke prakse, Medicinska naklada, Zagreb, 2011.		
	I. Čepelak, B. Labar, B. Štraus, S. Dodig Medicinsko- biokemijske smjernice, <i>Medicinska naklada, Zagreb,</i> 2004.	Z Ì	
Optional literature (at the time of submission of study programme proposal)	C.P. Price, A. St.John Point-of-care testing. U: C.A. Burtis, E Tietz Textbook of Clinical Chemistry and molecular Diagnos Saunders, 2018.	E.R. Aschwood, stics. 8. izdanje.	D.E. Burns, ur. St. Luis: Elsevier
Quality assurance	 Teaching quality analysis by students and teachers 		
methods that ensure	 Exam passing rate analysis 		
the acquisition of exit competences	Committee for control of teaching reportsExternal evaluation		
Other (as the proposer wishes to add)			

NAME OF THE CO	DURSE	Imunogenetics							
Code	ZSL 629		Year of study	3					
Course teacher	Assistan Čečuk-J) Professor Esma eličić	Credits (ECTS)	2					
Associate	Sonja Ja	man, mag.biol.mol.	Type of instruction	L	S	E	Т		
teachers			(number of hours)	15	5	20			
Status of the	Electiv	e	Percentage of application	10%					
course	COURSE DESCRIPTION								
Course enrolment requirements and entry competences required for the course	passed o (2nd yea	passed exam Laboratory Haematology and Coagulation (2nd year of undergraduate study MLD)							
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	 Recall system, disequil Descri method molecul Explai determi Descri HLA ant Show waiting Tell ak diseases Empha diagnos Explai recipien interpre- transpla Explai basic ele encoura 	 Recall the historical development of the HLA system, describe the terminology of the HLA system, list and classify the terms polymorphism, phenotype / haplotype, linkage disequilibrium and allele frequencies Describe the structure and function of class I and II antigens and genes, explain the methods to determinate the antigens of the HLA system using the serological and molecular methods such as the polymerase chain reaction (PCR-SSP / PCR-SSO) Explain the differences between serological methods and molecular methods in the determination of antigens and genes of the HLA system Describe the structure of antibodies, state the importance of monitoring sensitizations to HLA antigens Show a test to determine the percentage of HLA sensitization in patients who are on the waiting list (complement-dependent cytotoxicity test) Tell about the connection of certain genes / antigens of the HLA system with certain diseases (celiac disease, narcolepsy, ankylosing spondylitis, rheumatoid arthritis, psoriasis) Emphasize the importance of determining the HLA tissue antigens and genes in disease diagnosis Explain the historical facts of transplant medicine, explain the importance of matching recipients and donors for HLA alleles as well as the time those patients carry the transplant, interpret the importance of the cross-reaction tests that are used before solid organ transplantation Explain the recipient picking process using the National and World Registers as well as the basis element, used during the process of selecting a donor and putting an omphasize on the process of selecting a donor and putting an omphasize on the targeneric on the targeneric on the targeneric on the targeneric on the selection of certain genes of the transplant and genes in disease diagnosis 							
	L1.	Historical overvie	w and an introduction to the	e HLA sys	tem	1			
		Historical development	opment of the HLA system	•					
		Definition of the	HLA system						
	12	Defining the arre	engement of the HLA region			1			
Course content	L2.	HLA / 1 system pr	operties			1			
broken down in		• HLA system term	mornhism						
detail by weekly		Phenotype / ger	notype / haplotype						
class schedule	L3.	HLA / 2 system pr	operties			1			
(syllabus)	_	Linkage disequil	ibrium						
		Tissue represent	ation						
	L4.	Class I HLA antige	ns			1			
		 Structure and fu 	nction of the HLA class I gen	es					
		HLA Class I Loci							
	L5.	HLA class II antige	ens	1					

	 Structure and function of the HLA class II genes 	
	HLA Class II Loci	
L6.	HLA antibodies	1
	 HLA antibody structure 	
	 Presence of the HLA antibodies in the body 	
	 HLA sensibilization process 	
	 Importance of the anti-HLA antibodies in tissue and organ 	
	transplantation and in transfusion medicine	
L7.	Biological importance of the HLA system	1
	 Population genetics 	
	Anthropology	
L8.	Significance of the HLA system in clinical practice	1
	Medical diagnostics	
	Transplant medicine	
	• Transfusion medicine.	
L9.	The role of the HLA system in solid organ transplantation	1
	• Historical overview of transplantation in the world and the	
	beginning of transplantation in Croatia	
	• Types of transplantation	
	• The importance of matching in the HLA system for organ	
	transplant survival	
L10.	Transplantation waiting lists	1
	• Functioning of the Tissue Typing Laboratory within the	_
	Eurotransplant system	
	Criteria for patient registration for a waiting list for solid	
	organ transplantation (kidney, liver, heart, pancreas)	
	Methods of HIA typing of living and dead organ donors	
L11.	HLA system in hematopoietic stem cell transplantation	1
	Historical overview of hematopoietic stem cell	_
	transplantation (HSCT) in the world and in Croatia	
	Immunogenetic relationships of recipients and donors in	
	HSCT	
	Unrelated HSCT	
	World Registry of Unrelated Voluntary Donors	
112	Relationship between the HLA system and diseases	1
L12.	Association of certain genes / antigens of the HI A system	-
	with diseases (celiac disease narcolensy rheumatoid arthritis	
	etr)	
113	HIA system in transfusion medicine	1
	• The importance of the HIA system in transfusion medicine	1
	especially in patients on the waiting list for organ	
	transplantations	
	Post-transfusion reactions	
114	Mothods of Jahoratory diagnostics of the HLA system: genes /	1
L14	antigons	Ť
	Microlymphocytotoxicity tost	
	Molecular diagnostics	
	Transplant tosts	
115	- Hansplant tests. Quality control in the Tissue Typing Laboratory	1
L13	Operating instructions	±
	Coperating instructions Standard aparating procedures	
	stanuard operating procedures	
	Problem log	
		I
D) / 1 - 2	Determination of ULA ontigon	
PV1-2	Determination of HLA antigen	2
	 Peripheral blood collection 	

	•	 Separation of lymphocytes on a density gradient 					
	•	Store sample					
	PV3-7 Se	erological tes	ting of HLA sys	tem antigens		5	
	•	Determining	the number an	d viability of lyr	nphocytes		
	•	 Setting up the MLCT test 					
	•	Adding a com	nplement				
	•	Staining, read	ding reactions a	nd analysis of r	esults		
	PV8-12 D	etermination	of HLA class I	and class II anti	bodies	5	
	•	Thawing of ly	mphocyte pane	els			
	•	Preparation o	of serum sample	es			
	•	Checking cell viability					
	•	Examination	for the presenc	e of anti - HLA	antibodies and		
	d	etermination	of serum specif	ficity (screening			
	•	Performing a	crossmatching	-test			
	PV13-16 D	etermination	of HLA antibo	dies in the post	transfusion	4	
	re						
	Sample collection						
	•	Preparation of	of serum sample	es			
	•	Preparation of	of stations for to	est			
	•	Performing ti	he MILCI test	froculto			
		Reading reac	tions, analysis t			4	
	PV17-20 IV	lolecular lest	Ing of the HLA	samplas by cor	nmorcial kit	4	
	•		NA Irom blood	samples by col			
		• Mark on the Luminov machine					
	S1 H	LA-DQA1 / B1	genes in patie	nts with celiac o	disease	1	
	S2 A	Association of HLA-DRB1 * 11 and HIA-DOB1 * 03 loci with				1	
	Li	chen planopi	larus				
	S3 H	LA system po	lymorphism in	unrelated dono	r search in S4.	1	
	h	ematopoietic	stem cell trans	plantation			
	S4 P	CR-SSP metho	od in cadaveric	solid organ trar	1		
	S5 D	Diversity of HLA-A, HLA-B and HLA-DRB1 alleles and haplotypes					
	in	voluntary do	nors in the Cro	atian Hematop	oietic Stem Cell		
	R	egistry					
	⊠lectures			🗵 independent	assignments		
	🗵 seminars a	nd workshops	5	🗆 multimedia			
Format of	🛛 exercises						
instruction	🗆 on line ii	n entirety		work with m	entor		
	🗆 partial e-le	arning			-)		
	□ field work)		
Student	Attend classes	ordinarily.					
responsibilities	Actively partic	ipate in teacl	hing activities.				
	Own an active	password fo	r AAI @ EduHr	electronic iden	tity (for access to e-l	earning).	
Screening	Class	0.2	Research		Practical training		
student work	attendance	0,2	Researen				
(name the	Experimental		Report				
proportion of	work						
each activity so	Essay	0,2	Seminar essay		(Other)		
that the total	Tests		Oral exam		(Other)		
number of ECTS credits is eaual	Written exam	1,6	Project		(Other)		

to the ECTS									
value of the									
course)									
	Achieved succes	S	Gradin	Grading criteria			Grade		
	percentage (%)								
	60-69,9	m	neets minimum c	rite	ria		sufficie	sufficient (2)	
	70-79,9	a	verage success				good (3	3)	
	80-89,9	a	bove average suc	ces	SS		very go	od (4)	
Grading and	90-100	e	xceptional succes	s			excelle	nt (5)	
evaluating		I	RATIO OF SUCCES	SS A	AND EVALU	ATION			
student work in	Verifica	tion in	dicators		Perform	ance	Share	e in grade (%)	
final exam					(poin	ts)			
iniai exam									
	Class attendance and activity				5		10		
	Seminar Essay				5		10		
	Written exam				40		80		
	In total				50		100		
						Num	ber of	Availability	
			Title			copies	s in the	Availability v	ia
Dogwirod						lib	rary	other mean	a
literature	Andreis I, Batinić D,	, Čulo F	⁼ , Grčević D, Mar	uši	ć M, Taradi				
(available in the	M, Višnjić D. Imun	ologija	. Medicinska na	klad	da, Zagreb,				
library and via	2004, VI. izdanje – o	odabrai	na poglavlja						
other media)	Nataša Katalinić, Sa	nja Bale	en - Sustav HLA u	klin	ničkoj praksi				
,	(izdavač - Sveud	čilište	J.J.Strossmeyera	, F	Fakultet za				
dentalnu medicinu i zdravstvo, Osijek)									
						<u> </u>			
	1. Marsh S.G.	E., Parl	ham P., Barber L.	D. 1	The HLA fac	ts book.	London	: Academic Pre	ess,
	2000. 2. Barielahari dur Hamatelarija Zarreh Školeka krijer 2007.								
	 Boris Labar i sur., Hematologija, Zagreb, Skolska knjiga, 2007. Marinović I. Kalitarna DM. Smallanović M. Padić M. Čašulu Jaližić F. Dandavić D. 								
Optional	3. <u>Iviarinovic I, Kaliterna Divi, Smoljanovic M, Radic M, Cecuk-Jelicic E, Bogdanić D,</u> Divolica D. The provolonce of rhoumateid arthritic in Solit Dalmatic County in								
literature (at	<u>rivalica D</u> . The prevalence of meumatoid artifitis in Split-Daimatia County in southern Croatia is 0.24. <i>Joint Rone Spine</i> 2015								
the time of	 Esma Cecuk-Jelicic, Vesna Kerhin-Brkliacic, Zorana Grubic, Boris Labar, World's 								
submission of	regisrty of bone marrow donors. Acta Med Croatica. 2009 Jun: 63(3):251-3								
study	5. Grubić Z, Žunec R, Čečuk-Jeličić E, Kerhin-Brkljačić V. Kaštelan A (2000)								
programme	Polymorphism of HLA-A, -B, -DRB1, -DQA1 and –DQB1 haplotypes in a Croatian								
proposal)	population. Eur J Immunogen 27: 47-51								
	6. Žunec R, Grubić Z, Balen S, Važnost imunogenetike u transplataciji organa,								
	Darivanje o	organa	i transplatacijska	me	edicina u Hr	vatskoj,	pregled	ni članak	
Quality	 Teaching qualit 	y analy	sis by students a	nd	teachers				
assurance	 Exam passing rate 	ate ana	lysis						
methods that	 Committee for 	contro	l of teaching repo	orts	5				
ensure the	 External evalua 	tion							
acquisition of									
exit									
competences									
other (as the									
wishes to add)									
wishes to add)									

VI. LIST OF COURSES, TEACHERS AND ASSOCIATES

CODE	COURSE	COURSE TEACHERS
	Informatics and Statistics in	
757624	Health Care	Antonela Matana, PhD, Assistant Professor
232034	Social and Health Legislation	
	Social and freater Legislation	Jozo Cizmić, tuli professor tenure
ZSZ635		Nina Misic Radanović, assistant professor
	Basics of Health Care	Dejan Kružić, PhD, Full professor tenure
ZSZ604	Management	
767605	Ethics in Health Care	Ana Curković, PhD, Assistant professor
232605	Physical Training I	Žoliko Kovačović, PhD, Assistant professor
ZSZ606		Zeljko kovačević, Pilo Assistant Professor
767626	English for Radiologic	Sonja Koren, MA, Senior lecturer
252636	Lechnology I	Marpa Antičavić BhD. Associate professor
ZSZ608	Health Care Psychology	Vesna Anticevic, PhD, Associate professor
ZSZ609	Communication Skills	Vesna Antičević, PhD, Associate professor
ZSZ610	Hygiene and Epidemiology	Assoc. Prof. Anamarija Jurcev Savicevic, MD, PhD
	Sociology of Health	Ana Ćurković, PhD, Assistant professor
ZSZ611		Ana Jeličić, PhD, Assistant professor
		Assoc. Prof. Anamarija Jurcev Savicevic, MD, PhD
		Full Professor Rosanda Mulic, MD, PhD
		Asst. Prof. Iris Jerončić Tomić, MD, PhD
		Asst. Prot. Ana Curković, MD
		Asst. Prof. Zeljka Karin, MD, PhD
ZSZ613	Public Health	Asst. Prof. Ivana Marasović-Sušnjara, MD, PhD
ZSZ614	Biochemistry	Full Prof. Irena Drmic Hofman, PhD
		Prof. Ivica Aviani, PhD
		Prof. Ante Bilušić, PhD
ZSZ615	Biophysics	Mr. Darijo Radović, dr. med., senior lecturer
		Prof. Ivica Grković, MD PhD
		Prof. Ana Marusic, MD PhD
		Prof. Katarina Vilovic, MD PhD
757516		Prof. Katarina Vukojević, MD PhD
252616	Anatomy	Associates from teaching bases
		Assoc. Ante Obad, PhD, MD
757617	Physiology	Prof. Maja Valić, PhD, MD Prof. Zoran Valić, PhD, MD
232017	Pilysiology	Sendi Kuret PhD Assistant Professor
252618	Вююду	
ZSZ619	Embryology and Histology	Full professor Shjezana Mardesic
757620	Desire of Numerica Come	Prof. Julije Meštrović, MD, PhD
252020	Dasics of Nursing Care	Didiid Ardiizd, master of Nursing
231001	medicine	Assistant professor Ecma Čačuk Jaličić, PhD
		Assistant professor Zlatka Knozović DhD
		Assistant professor Sendi Kuret DhD
		Assistant professor Vesela Torlak Lovrić DhD
		Assistant professor Vania Kaliterna PhD
1	•	

		Davorka Sutlović, Full professor with tenure
ZSL602	Mathematics	Antonela Matana, PhD, Assistant Professor
	General Chemistry and	Davorka Sutlović, PhD, Full professor with tenure
ZSL633	Stoichiometry	
ZSL603	Organic Chemistry	Davorka Sutlović, PhD, Full professor with tenure
ZSL632	Analytical Chemistry	Davorka Sutlović, PhD, Full professor with tenure
	Clinical Skills I	Assistant professor Daniela Šupe Domić, PhD
ZSL605		Associates from teaching bases
ZSZ621	Introduction to Scientific Work	Davorka Sutlović, PhD, Full professor with tenur
		Vjekoslav Krželj, PhD, Full professor with tenor
		Frane Mihanović, PhD, Assistant professor
		Sendi Kuret, PhD, Assistant professor
		Ante Burger, PhD, Assistant professor
		Diana Aranza, lecturer
		Mario Marendić, lecturer
		Mario Podrug, assistant
ZSZ622	Use of Scientific Technology	Antonela Matana, PhD Assistant Professor
ZSZ623	Physical Training II	Željko Kovačević, PhD, Assistant Professor
	English for Radiologic	Sonia Karan MA Soniar lacturar
ZSZ637	Technology II	Solija Koleli, MA, Selioi lecturel
	Pathophysiology	Assist. Prof. Anteo Bradarić-Šlujo, MD, PhD
ZSZ625		Associates from teaching bases
	Pathology	Prof.dr.sc. Valdi Pešutić-Pisac
ZSZ626		Prof.dr.sc. Šimun Anđelinović MDPhD ;
ZSZ627	Microbiology with Parasitology	asst. prof. Vanja Kaliterna, M.D., PhD, clinical microbiology
		specialist
		asst. prof. Anita Novak,
		M.D., PhD, clinical microbiology specialist
		asst. prof. Katarina Šiško Kraljević, M.D., PhD, clinical
		microbiology specialist
		asst. prof. Merica Carev,
		M.D., PhD, clinical microbiology specialist
		Associates from teaching bases
ZSZ628	Pharmacology	Mladen Boban, MD, Full Professor
		Ivana Mudnić, Associate Professor
761 696		Associates from teaching bases
ZSL606	Basics of haematology and	Assistant professor Esma Cecuk Jelicic, PhD
	coagulation	Assistant professor Slavica Dajak, PhD
		Assistant professor Leida Tandara, PhD
	Dhucies I methods in MID	Assistant professor Daniela Šupa Damié DbD
751607	Physical methods in MLD	Assistant professor Daniela Supe Domic, PhD
Z3L007	Piechomistry II	Assistant professor Leida Tandara, Fild
231008	Biochermstry II	Assistant professor Daniela Šupe Domić, PhD
		Assistant professor Nada Bilonaylović, PhD
		Assistant professor Sendi Kuret PhD
	Cellular biology with genetics	Assistant professor Sendi Kuret, PhD
ZSL609	basics	Assistant professor senar Ruret, Filo
	Cytology and Histology	Assistant professor Dinka Šundov. PhD
ZSL610	, , , , , , , , , , , , , , , , , , , ,	Full professor Merica Glavina Durdov
ZSL611	Laboratory histopathological	Full professor Merica Glavina Durdov
	techniques	Associate professor Sniežana Mardešić
		Full professor Katarina Vukojević
ZSL612	Instrumental techniques in	Davorka Sutlović, PhD, Full professor with tenure
--------	--------------------------------	--
	MLD	Assistant professor Zlatka Knezović, PhD
		Assistant professor Vesela Torlak Lovrić, PhD
		Assistant professor Sendi Kuret, PhD
	Computer processing of	Assistant professor Leida Tandara, PhD
ZSL613	laboratory data (LIS)	Assistant professor Frane Mihanović, PhD
	Clinical Skills II	Assistant professor Daniela Šupe Domić, PhD
ZSL616		Associates from teaching bases
		Assistant professor Zlatka Knezović, PhD
ZSL615	Food Toxicology	Davorka Sutlović, PhD, Full professor with tenure
	Emergencies in Medicine	Mihajlo Lojpur, M.D., Ph.D, Assistant Professor
ZSZ630		Associates from teaching bases
		Assistant professor Nada Bilopavlović, PhD
		Assistant professor Daniela Šupe Domić, PhD
ZSL617	Clinical Biochemistry	Assistant professor Leida Tandara, PhD
		Assistant professor Slavica Dajak, PhD
	Basics of Transfusion Medicine	Assistant professor Esma Čečuk Jeličić, PhD
ZSL618	and Transplantation	Assistant professor Dejana Bogdanić, PhD
		Assistant professor Vanja Kaliterna, PhD
ZSL619	Clinical Microbiology	Associates from teaching bases
		Assistant professor Nada Bilopavlović, PhD
	Laboratory Haematology and	Assistant professor Leida Tandara, PhD
ZSL620	Coagulation	Associates from teaching bases
		Irena Drmić Hofman, Full professor with tenure
	Molecular Biology Techniques	Assistant professor Sendi Kuret, PhD
ZSL621	in Medicine	Assistant professor Vanja Kaliterna, PhD
	Laboratory Immunology and	Assistant professor Esma Čečuk Jeličić, PhD
ZSL622	Immunochemistry	Associates from teaching bases
		Assistant professor Daniela Šupe Domić, PhD
		Assistant professor Nada Bilopavlović, PhD
ZSL623	Automation in MLD	Associates from teaching bases
		Assistant professor Daniela Šupe Domić, PhD
		Assistant professor Slavica Dajak, PhD
ZSL624	Quality control in MLD	Associates from teaching bases
		Assistant professor Daniela Šupe Domić, PhD
ZSL627	Clinical Skills III	Associates from teaching bases
ZSL628	Bachelor's Thesis	
		Assistant professor Daniela Šupe Domić. PhD
ZSL625	Urgent laboratory diagnostics	Assistant professor Sanda Stojanović Stipić, MD, PhD
		Assistant professor Esma Čečuk Jeličić, PhD
ZSL629	Immunogenetics	

VII. CURRICULUM VITAE OF TEACHERS AND ASSOCIATES

In alphabetical order:

Title, name and last name	Associate professor Vesna Antičević, PhD
Title of the course at the proposed	Health Care Psychology
study programme	Communication Skills
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	vesna.anticevic@ozs.unist.hr
Year of birth	1965
Scientist ID	336020
CROSBI profile ID	31537
Research rank and date of the last	Associate professor 2020
appointment	
Research and teaching or teaching	Associate professor
rank, and the date of the last	
appointment	
Area and field of appointment into	Social sciences
research rank	
INFORMATION ON CURRENT EMPLOYM	1ENT
Institution of employment	University Department of Health Studies
Date of employment	2014
Job title (professor, researcher,	professor
associate teacher, etc.)	
Field of research	Social sciences
Position in the institution	Head of the quality
INFORMATION ON EDUCATION – Highest degree achieved	
Degree	PhD
Institution	University of Zagreb, University Department of Health Studies
Place	Zagreb
Date	2012
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2004
Place	Zagreb
Institution	University of Zagreb, University Department of Health Studies
Field of training	Postgraduate professional study
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Germany 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Earlier experience as course	Undergaraduate studies:
teacher of similar courses (title of	Health psychology
is/was held, and lovel of study	Communication Skins Psychology of Pain
nogramme)	Riological basis of behavior
programme)	Psychology of disability
	Psychology of lifelong learning
	Graduate studies:
	Communication and clinical assessment
	Clinical care for psychiatric patients

	English studies:
	Educational psychology
	Healthcare for persons with disabilities
	Healthcare of psychiatric patients
Authorship of university textbooks	
from the field of the course	
Professional and research papers	1. Dolić, Matea; Antičević, Vesna; Dolić, Krešimir; Pogorelić,
published in the last five years from	Zenon
the field of the course (max 5 references)	 Difference in pandemic-related experiences and factors associated with sickness absence among nurses working in COVID-19 and non-COVID-19 departments (2022). International journal of environmental research and public health, 19, 3; 1093, 20 doi:10.3390/ijerph19031093 2. Dolić, Matea; Antičević, Vesna; Dolić, Krešimir; Pogorelić, Zenon. Questionnaire for assessing social contacts of nurses who worked with coronavirus patients during the first wave of the COVID-19 pandemic // Healthcare, 9 (2021), 8; 930, 9 doi:10.3390/healthcare9080930 3. Dapić Kolak, Zdravka; Antičević, Vesna The effect of continuous training of nurses and carers on the protection of the health of users of the Nursing Home // Medica Jadertina, 48 (2018), 4; 207-216 4. ković, Stipan; Koren, Sanja; Šarić, Matea; Orlandini, Rahela; Antičević, Vesna; Švaljug, Deana; Buljubašić, Ante The Croatian Model of University Education for Nurses // International Archives of Nursing and Health Care, 4 (2018), 2; 1-4 doi:10.23937/2469-5823/1510093 5. Klarin, Mira; Antičević, Vesna; Kardum, Goran; Proroković, Ana; Sindik, Joško Communication and social skills in education of health occupation
	students: attitudes and validation on nationwide parallel group
Professional and research papers	randomized study // Suvremena psihologija, 20 (2017), 1; 39-52
In methodology and quality of	
teaching published in the last five	
years (max 5 references)	
Professional and research projects	
from the field of the course carried	
out in the last five years (max 5	
references)	
Within which program and to what	
extent did the course teacher acquire	
methodological, psychological,	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and last name	Diana Aranza, Master of Nursing, lecturer
Title of the course at the	Basics of Nursing Care
proposed study programme	
GENERAL INFORMATION ON CO	URSE LEADER
E-mail address	daranza@ozs.unist.hr
Year of birth	1972.
Scientist ID	
CROSBI profile ID	38136
Research rank and date of the	
last appointment	
Research and teaching or	Lecturer, 08.9.2017.
teaching rank, and the date of	
the last appointment	
Area and field of appointment	Biomedicine and Health; Clinical Medical Sciences
into research rank	
INFORMATION ON CURRENT EN	IPLOYMENT
Institution of employment	University of Split; University Department of Health Studies
Date of employment	8 ^{di} September 2017.
Job title (professor,	Lecturer
researcher, associate teacher,	
Elc.)	Nursing and midwifen
Position in the institution	
	Highest degree achieved
Degree	Mactor of Nursing
Institution	University of Solity University Department of Health Studies
Place	Split. Creatia
Place	
Voor	2017 2021
Place	2017 - 2021.
Institution	University of Split: University Department of Health Studies
Field of training	- Expert Mentor Completed training program for expert mentors, organized
	by the Ministry of Health of the Republic of Croatia within the European Union-funded Twinning project "Training of mentors for nurses and midwives in the health care system of the Republic of Croatia and
	implementation of the training curriculum in accordance with Directive 2005/36 / EC".
	- KBC Split - Clinic for Paediatrics; Croatian Paediatric Society; Croatian
	Society for School and University Medicine; HUMS - Paediatric Society;
	University of Split – SOZS
	- Cochrane Croatia_Systematic Reviews_Presentation 3 poster
	presentations (2018, 2019, 2020)
	- Communication skills in working with students; basic small group
	leadership and teamwork skills; curriculum planning, implementation, and
	assessment; and the mentoring process.
	 Nursing care of patients with stoma
	- How to take care of yourself in COVID -19 pandemic
MOTHER TONGUE AND FOREIG	N LANGUAGES
Mother tongue	Croatian
Foreign language and	English (3)
command of	
foreign language on a scale	
from 2 (a)	
(sufficient) to 5 (excellent)	

COMPETENCES FOR THE COURSE		
Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)	Professional subjects in the field of nursing and health care	
Authorship of university textbooks from the field of the course	Midwifery care in the postpartum period and its complications – Co- authorship on a peer-reviewed university script Introduction to Midwifery – Script Midwifery care in gynecology – Script Maternal and newborn health care – Script	
Professional and research papers published in the last five years from the field of the course (max 5 references)	 Supičić Z, Puljić Z, Milić M, Aranza D. Health literacy of students at the University of Split: a cross-sectional study. Journal of Applied Health Sciences [Internet of Applied Health Sciences]. 2021; 7 (1): 25-35. https://doi.org/10.24141/1/7/1/3 Podrug M, Aranza D, Bazina AM, Krželj L, Milić M. Epidemiological characteristics of patients with arterial hypertension who sought emergency medical care in the Split-dalmatia county. Research in Physical Education, Sport and Health 2017; 6 (2): 53-57. 	
	 Puljić Z, Supičić Z, Milić M, Aranza D. Attitudes of University of Split students about psychiatric patients. Medica Jadertina [Internet]. 2021 [accessed 07.10.2021]; 51 (3): 201-209. Available at: https://hrcak.srce.hr/263139 (SCOPUS) Podrug M, Aranza D, Marendić M, Buljubašić A, Orlandini R, Dolić M, Krželj V. Incidence of injuries of children treated at the Institute of Emergency Medicine of the Split-Dalmatia County. Paediatria Croatica. 2021 Mar 17; 65 (1): 21-6 (SCOPUS) 	
	Puljić Z, Supičić Z, Milić M, Aranza D. Knowledge of students of the University of Split about psychiatric diseases: a cross-sectional study. Croatian Journal of Health Sciences [Internet]. 2021; 1 (1): 19-24. Available at: https://hrcak.srce.hr/257816	
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	Aranza D, Milavić B, Marusic A, Buzov M, Poklepović Peričić T. A cross- sectional study on adaptation and initial validation of a test to evaluate health claims among high school students: Croatian version. BMJ Open. 2021 Aug 10;11(8):e048754. doi: 10.1136/bmjopen-2021-048754.	
	Puljak L, Čivljak M, Haramina A, Mališa S, Čavić D, Klinec D, Aranza D, Mesarić J, Skitarelić N, Zoranić S, Majstorović D, Neuberg M, Mikšić Š, Ivanišević K. Attitudes and concerns of undergraduate university health sciences students in Croatia regarding complete switch to e-learning during COVID-19 pandemic: a survey. BMC Med Educ. 2020 Nov 10;20(1):416. doi: 10.1186/s12909-020-02343-7. PMID: 33167960; PMCID: PMC7652670. Books	
	Translation and adaptation: Aranza D, Poklepović Peričić T: Informed Health Choices Group. A book of good health decisions: How to think about treatment properly? A textbook on health for children in primary school. Available at:	

	https://www.informedhealthchoices.org/wp-	
	content/uploads/2021/02/01 ChildrensBook HR CROATIA web.pdf	
Professional and research	Coordinator:	
projects from the field of the	1. Institutional project of the University Department of Health Studies	
course carried out in the last	"Promoting health literacy in children and youth". PromoLit (SOZS-IP-2020-	
five years (max 5 references)	2).	
	Project participant:	
	1. Project of the Croatian Science Foundation (HRZZ IP-2014-09-7672)	
	"Professionalism in health care" "Class: 003-08 / 11-03 / 0005, Reg. No .:	
	2181-198-03 -04 / 10-11 And Class: 003-08 / 13-03 / 0003, Reg. No .: 2181-	
	198-03-04-13-0038). Project manager prof. dr. sc. Ana Marušić.	
	2. Erasmus + Project "Evidence Implementation in Clinical Practice" EICP	
	(2020-I-DE0I-KA203-005669). Project manager doc. dr. sc. Tina Poklepović	
	Peričić.	
Within which program and to	Passed courses at the Graduate Study of Nursing: Pedagogy, Methodology	
what extent did the course	and Didactics, Health Psychology, Communication Skills	
teacher acquire		
methodological,	Completed training program "Training of mentor educators" organized by	
psychological, didactic and	the Ministry of Health of the Republic of Croatia within the Twinning project	
pedagogical competencies?	"Training of mentors for nurses and midwives in the health system in the	
	Republic of Croatia and the implementation of educational curriculum in	
	line with Directive 2005/36 / EC" (2018) . Acquisition of knowledge on the	
	application of projects in personal and professional development, teaching	
	and scientific research; possibilities of applying other models of innovative	
	learning and teaching in health education.	
	Completed the continuing education course "Communication and	
	Pedagogical Skills for Clinical Mentors" organised by the "Alumni"	
	Association of Students of the University Department of Health Studies,	
	University of Split (2020). Acquired knowledge of communication skills in	
	working with students; basic skills of leading a small group and working in a	
	team; planning, implementing and evaluating curricula and the mentoring	
	process.	
PRIZES AND AWARDS	Acknowledgment of the University Department of Health Studios for	
and recearch	Acknowledgment of the oniversity Department of Health Studies for	
	personal contribution to the publication of textbooks for children book of	
	for children in primary school and overall contribution to the work of the	
	University Department of Health Studies	

Title, name and last name	Ivica Aviani, PhD, Professor
Title of the course at the	Biophysics
proposed study programme	
GENERAL INFORMATION ON CO	URSE LEADER
E-mail address	iaviani@pmfst.hr
Personal web page	https://mapmf.pmfst.unist.hr/~iaviani/
Year of birth	1955
Scientist ID	76256
CROSBI profile ID	20158
Research rank and date of the last appointment	Senior Scientist, 23/05/2018
Research and teaching or teaching rank, and the date of the last appointment	Full Professor, 06/02/2019
Area and field of appointment into research rank	Area of natural sciences – field of physics
INFORMATION ON CURRENT EN	APLOYMENT
Institution of employment	Faculty of Science in Split
Date of employment	05. 07. 2012.
Job title (professor, researcher, associate teacher,	Professor
etc.)	
Field of research	Solid State Physics, Biophysics, Physics Education
Position in the institution	Head of graduate studies in mathematics and physics: teaching major.
	Head of graduate studies in physics; teaching major.
	Head of the Laboratory for Structural Characterization of Samples.
	Head of the Physics Teaching Methods Laboratory.
INFORMATION ON EDUCATION	– Highest degree achieved
Degree	PhD
Institution	University of Zagreb, Faculty of Science
Place	Zagreb
Date	20/07/1999
INFORMATION ON ADDITIONAL	TRAINING
Year	2011
Place	Vienna, Austria
Institution	Institute of Physical Chemistry
Area of training	Transport and Magnetic Properties of Thermoelectrics
Year	2009.
Place	Vienna, Austria
Institution	Institute of Physical Chemistry
Area of training	Transport Properties of Thermoelectrics
Year	2007.
Place	Cambridge, England
Institution	University of Cambridge, Cavendish Laboratory
Area of training	Transport Properties of Pressurised CeGe
Year	2003.
Place	Grenoble, France
Institution	University of Joseph Fourier
Area of training	Magnetostriction of Rare Earth Hexaboride
Year	2001.
Place	Grenoble, France
Institution	C.N.R.S Lab. Magnetisme Louis Néel
Area of training	Magnetostriction of Rare Earth Hexaboride
Year	1999 2000.
Place	Grenoble, France

Institution	C.N.R.S Lab. Magnetisme Louis Néel
Area of training	Producing a magnetostriction device
Year	1996.
Place	Frankfurt am M., Germany
Institution	University of J.W. Goethe, Physikalishes Institut
Area of training	Ultrasound Characterization of Electric Properties of Heavy Fermions
MOTHER TONGUE AND FOREIG	N LANGUAGES
Native language	Croatian
Foreign language and	
command of	
foreign language on a scale	English 5 (excellent)
(sufficient) to 5 (excellent)	
Foreign language and	
command of	
foreign language on a scale	French 2 (sufficient)
from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURS	SE
Earlier experience as course	• Physics Education I, II i III, Graduate programme Master of Education in
teacher of similar courses	Physics at University of Split, Faculty of Science, Department of Physics,
(title of course, study	2015 – present.
programme where it is/was	• Introduction to statistical physics (Statistical physics I), Undergraduate
held, and level of study	programme Batchelor in physics at University of Split, Faculty of Science,
programme)	2017– present.
	• Experimental Methods of Physics in Biophysics, Ph.D. study of Biophysics
	at the Faculty of Science, oniversity of Split, 2019 – present (a part of course)
	Research-based physics education strategies Postgraduate University
	Study Programme in "Education Research in Natural and Technical
	Sciences", University of Split, Faculty of Science 2020 – present.
	• Selected Chapters in Methods of Teaching Physics, Postgraduate
	programme "Physics in Education" at University of Sarajevo, (2014 –
	present).
	• Fundamental Concepts in Physics, Undergraduate programme Batchelor
	in physics at University of Split, Faculty of Science, Department of Physics
	(2013 – 2015).
	• Physics 1, Graduate program in Conservation and Restoration at the Arts
	Academy, University of Split, 2011 – 2013.
Authorship of university	
the course	
Professional and research	• L Car D Blažeka T Bajan L Krce L Aviani N Krstulović A gugntitative
papers	analysis of colloidal solution of metal nanoparticles produced by laser
published in the last five years	ablation in liquids. Applied Physics A, 127, 838 (2021).
from the field of the course	https://doi.org/10.1007/s00339-021-04966-z
(max 5 references)	• D. Crnčević, L. Krce, L. Mastelić, A. Maravić, B. Soldo, <u>I. Aviani</u> , I. Primožič,
	R. Odžak, M. Šprung, The mode of antibacterial action of quaternary N-
	benzylimidazole salts against emerging opportunistic pathogens,
	Bioorganic Chemistry, 112 , 104938 (2021),
	https://doi.org/10.1016/j.bioorg.2021.104938
	 <u>https://doi.org/10.1016/j.bioorg.2021.104938</u> L. Krce, M. Šprung, T. Rončević, A. Maravić, V. Čikeš Čulić, D. Blažeka, N. Kretulavić and L. Aviani. <i>Disking the Marke of A vite state in the second sec</i>
	 <u>https://doi.org/10.1016/j.bioorg.2021.104938</u> L. Krce, M. Šprung, T. Rončević, A. Maravić, V. Čikeš Čulić, D. Blažeka, N. Krstulović and <u>I. Aviani</u>, <i>Probing the Mode of Antibacterial Action of Silver</i>
	 <u>https://doi.org/10.1016/j.bioorg.2021.104938</u> L. Krce, M. Šprung, T. Rončević, A. Maravić, V. Čikeš Čulić, D. Blažeka, N. Krstulović and <u>I. Aviani</u>, <i>Probing the Mode of Antibacterial Action of Silver Nanoparticles Synthesized by Laser Ablation in Water: What Fluorescence and AFM Data Tell, Us. Nanomaterials</i> 10, 45, 1040, (2020)

	 L. Krce, M. Šprung, A. Maravić, P. Umek, K. Salamon, N. Krstulović and <u>I. Aviani</u>, Bacteria Exposed to Silver Nanoparticles Synthesized by Laser Ablation in Water: Modelling E. coli Growth and Inactivation, Materials 13 (3), 653 (2020), <u>https://doi.org/10.3390/ma13030653</u> L. Krce, M. Šprung, A. Maravić, <u>I. Aviani</u>, A simple interaction-based E. coli growth model, Physical Biology 16 (6), 066005 (2019), <u>https://doi.org/10.1088/1478-3975/ab3d51</u>
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	 N. Erceg, L. Jelovica, Z. Hrepić, V. Mešić, M. Karuza, <u>I. Aviani,</u> <i>University students' conceptual understanding of microscopic models of</i> <i>electrical and thermal conduction in solids</i>, Eur. J. Phys. 42, 045702 (2021), <u>https://doi.org/10.1088/1361-6404/abf5eb</u> D.S. Glamočić, V. Mešić, K. Neumann, A. Sušac, W.J. Boone, <u>I. Aviani</u>, E. Hasović, N. Erceg, R. Repnik, V. Grubelnik <i>Maintaining item banks with the Rasch model: An example from wave</i> <i>optics</i>, Phys. Rev. Phys. Educ. Res. 17, 010115 (2021), <u>https://doi.org/10.1103/PhysRevPhysEducRes.17.010105</u> N. Erceg, <u>I. Aviani</u>, M. Karuza, K. Grlaš, V. Mešić, <i>Development of the</i> <i>kinetic molecular theory of liquids concept inventory: Preliminary results</i> <i>on university students' misconceptions</i>, Eur. J. Phys. 40, 025704 (2019). <u>https://doi.org/10.1088/1361-6404/aaff36</u> V Mešić, K. Neumann, <u>I. Aviani</u>, E. Hasović, W. J. Boone, N. Erceg, V. Grubelnik, A. Sušac, Dž. Salibašić Glamočić, M. Karuza, A. Vidak, A. Alihodžić and R. Repnik, <i>Measuring students' conceptual understanding of</i> <i>wave optics: A Rasch modeling approach</i>, Phys Rev. Phys. Educ. Res. 15, 010115 (2019). <u>https://doi.org/10.1103/PhysRevPhysEducRes.15.010115</u> N. Erceg, <u>I. Aviani</u>, V. Mešić, M. Glunčić, G. Žauhar, <i>Development of the</i> <i>kinetic molecular theory of gases concept inventory: Preliminary results on</i> <i>university students' misconceptions</i>, Phys. Rev. Phys. Educ. Res. 12, 020139 (2016).
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	 2020. – 2024. Laser synthesis of nanoparticles, HrZZ Project: IP-2019-04- 6418, principal investigator Nikša Krstulović. 2020. – 2023. Engineering reservoirs and optimizing response function measurements in quantum simulators and computers, Croatian-American
	 NSF project, No: 2/2019, principal investigator lvica Aviani. 2020 2022. Research on students' conceptual understanding of microscopic models in thermodynamics and development of modern methodical tools, University of Rijeka project, principal investigator Nataša Erceg. 2019 - 2022 Development of Physics Studies with the Application of The Croatian Qualifications Framework (CROQF), The European Social Fund (ESF) project. 2018 - 2021 Internationalization of Graduate Study Programs at The Faculty of Science in Split, ESF project.
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Through teacher training programs before the Education and Teacher Training Agency, at district and state professional conventions for physics teachers (over 60 conventions).
PRIZES AND AWARDS	
Prizes and awards for teaching and research	Award from the University of Split, Faculty of Science, for outstanding scientific research in 2019.

Title, name and last name	Full professor Mladen Boban, M.D., Ph.D.		
The course he/she teaches in the	Pharmacology		
proposed study programme			
GENERAL INFORMATION ON COURSE T	EACHER		
E-mail address	mladen.boban@mefst.hr		
Year of birth	1964		
Scientist ID	207836		
CROSBI profile ID	15610		
Research or art rank, and date of last	Scientific adviser, 2005.		
rank appointment			
Research-and-teaching, art-and-	Full professor tenure, July 15th, 2010.		
teaching or teaching rank, and date of			
last rank appointment	Dismodising and basish, basis medial sidesas		
Area and field of election into	Biomedicine and health, basic medical sciences		
INFORMATION ON CURRENT EMPLOYM	ENT		
Institution where employed	University of Split School of Medicine		
Date of employment			
Name of position (professor,	Protessor		
Field of research	Dharmacology		
Field of research	Head of the Department of Basic and Clinical Pharmacology		
	nead of the Department of Basic and Clinical Pharmacology		
INFORMATION ON EDUCATION – Highe	st degree earned		
Degree			
Institution	University of Zagreb, School of Medicine		
Place	Zagreb		
	Apin 21st, 1993.		
INFORMATION ON ADDITIONAL TRAINI	NG		
Year	1989-1992		
Place	Milwaukee, USA		
Field of training	The Medical College of Wisconsin		
	Pharmacology and physiology of cardiovascular system		
MOTHER TONGUE AND FOREIGN LANG	UAGES		
Mother tongue	Croatian		
Foreign language and command of	English, 5		
(sufficient) to 5 (excellent)			
COMPETENCES FOR THE COURSE			
earlier experience as course teacher	Principal teacher of several courses in the field of pharmacology for		
course, study programme where it	students of medicine, pharmacy, dental medicine, nearch studies, at		
is/was offered and level of study			
programme)			
Authorship of university/faculty	Author and translator of several chapters in pharmacology		
textbooks in the field of the course	textbooks		
Professional, scholarly and artistic	1. Boban, N., Tonkić, M., Grga, M., Milat, A.M., Mudnić, I., Boban, M.		
articles published in the last five years	Antimicrobial activity of wine in relation to bacterial resistance to		
in the field of the course (5 works at	medicinal antibiotics		
most)	(2021) Oeno One, 55 (1), pp. 45-48.		
	Z. Kauman, S., Kaic, S., Bucan, I., Pribisalic, A., Dunatov, J., Mudnić, Roban, M., Bollay, E.V., Kolčić, J., Bolaček, O., Soarshing, for		
	i., DUDdii, IVI., Pelidy, F.A., KUILIC, I., POIdSEK, U. SedfChing for		
	carbonytonic biomarkers of aging - Development and validation of		

	the protection method for quantification of earbonulated protein in
	human plasma
	(2020) Croatian Medical Journal 61 (2) pp. 119-125
	3.Režić-Mužinić, N., Mastelić, A., Benzon, B., Markotić, A., Mudnić,
	I., Grković, I., Grga, M., Milat, A.M., Ključević, N., Boban, M.
	Expression of adhesion molecules on granulocytes and monocytes
	following myocardial infarction in rats drinking white wine
	(2018) PLoS ONE, 13 (5), art. no. e0196842
	4. Milat. A.M., Mudnić. I., Grković. I., Ključević. N., Grga. M., Jerčić.
	I., Jurić, D., Ivanković, D., Benzon, B., Boban, M. Effects of White
	Wine Consumption on Weight in Rats: Do Polyphenols Matter?
	(2017) Oxidative Medicine and Cellular Longevity, 2017, art. no.
	8315803
	5.Boban, M., Stockley, C., Teissedre, PL., Restani, P., Fradera, U.,
	Stein-Hammer, C., Ruf, JC.
	Drinking pattern of wine and effects on human health: Why should
	we drink moderately and with meals?
Drofossional and scholarly articles	(2016) Food and Function, 7 (7), pp. 2937-2942.
published in the last five years in	
subjects of teaching methodology	
and teaching quality (5 works at	
most)	
Professional, science and artistic	Croatian Science Foundation, Principal Investigator, Project 8652
projects in the field of the course	"BioWine" 2014-2019,
carried out in the last five years (5 at	
most)	
The name of the programme and the	Continuing education course <i>Skills of medical education and</i>
passed exams in /acquired the	sciencific work at the oniversity of spirt school of Medicine
methodological-nsychological-	
didactic-pedagogical group of	
competences?-pedagoške	
kompetencije?	
PRIZES AND AWARDS, STUDENT EVALU	ATION
Prizes and awards for teaching and	2. Decoration: "Chevalier de l'Ordre du Merite Agricole", Ministère
scholarly/artistic work	de l'Agriculture, de l'Alimentation, de la Pêche, de la Ruralité et de
	l'Aménagement du territoire, The Republic of France, 2011.
	3. National science award in the field of Biomedicine for year 2012.
Results of student evaluation taken in	4,5
the last five years for the course that	
is comparable to the course described	
In the form (evaluation organizer,	
average grade, note on grading scale	
and course evaluated)	

Title, name and last name	Ascoc. Prof. Joško Božić, MD, PhD	
Title of the course at the proposed	Pathophysiology	
study programme		
GENERAL INFORMATION ON COURSE L	EADER	
E-mail address	josko.bozic@mefst.hr	
Year of birth	1985	
Scientist ID	326460	
CROSBI profile ID	30423	
Research rank and date of the last	Senior research associate (22.01.2020.)	
appointment		
Research and teaching or teaching	Associate Professor (21.04.2020.)	
rank, and the date of the last		
appointment		
Area and field of appointment into	Biomedicine and Health	
research rank		
INFORMATION ON CURRENT EMPLOYM		
Institution of employment	University of Split School of Medicine	
Lob title (professor recorder	14.01.2011.	
associate teacher, etc.)	ASSOCIATE PTOTESSOF	
Eigld of rosparch	Pathonhyciology	
Preid of research	Vice Dean for Medical Studies in English	
	Deputy Head of the Department of Pathonbysiology	
	Head of the Department of Diploma Thesis	
INFORMATION ON EDUCATION - Highe	st degree achieved	
Degree	Doctor of Medical Sciences (PhD)	
Institution	University of Split School of Medicine	
Place	Split	
Date	2016	
INFORMATION ON ADDITIONAL TRAINI	NG	
Year		
Place		
Institution		
Field of training		
MOTHER TONGUE AND FOREIGN LANG	UAGES	
Mother tongue	Croatian	
Foreign language and command of	English – excellent (5)	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)		
Foreign language and command of	German – sufficient (2)	
foreign language on a scale from 2		
(sufficient) to 5 (excellent)		
COMPETENCES FOR THE COURSE		
Earlier experience as course	Pathophysiology course leader (Dental Medicine Studies, Medical	
teacher of similar courses (title of	Studies in English)	
course, study programme where it		
nogramme)		
Authorship of university toythooks	Tičinović Kurir T et al. Dathonhysiology of endocrinonathios	
from the field of the course	chosen chanters Snlit Naklada Redak 2013 (University teythook)	
	- author of the chapter	
Professional and research papers	1. Borovac JA, Glavas D, Susilovic Grabovac Z, Supe Domic D.	
	D'Amario D, Bozic J. Catestatin in Acutely Decompensated Heart	

published in the last five years from	Failure Patients: Insights from the CATSTAT-HF Study, J Clin
the field of the course (max 5	Med. 2019;8(8). pii: E1132.
references)	2. Borovac JA, Dogas Z, Supe-Domic D, Galic T, Bozic J. Catestatin
	serum levels are increased in male patients with obstructive
	sleep apnea. Sleep Breath. 2019;23(2):473-481.
	3. Tadin Hadjina I, Zivkovic PM, Matetic A, Rusic D, Vilovic M, Bajo
	D, Puljiz Z, Tonkic A, Bozic J. Impaired neurocognitive and
	psychomotor performance in patients with inflammatory bowel
	disease. Sci Rep. 2019;9(1):13740. doi: 10.1038/s41598-019-
	50192-2.
	4. Bozic J, Borovac JA, Galic I, Kurir II, Supe-Domic D, Dogas Z.
	Adrophin and Inflammation Biomarker Levels in Male Patients
	and Sleep Parameters, J Clin Sleep Med, 2018:14/7):1109-1118
	5 Vilovic M. Dogas Z. Ticinovic Kurir T. Borovac JA. Supe-Domic D.
	Vilovic T. Ivkovic N. Rusic D. Novak A. Bozic J. Bone metabolism
	parameters and inactive matrix Gla protein in patients with
	obstructive sleep apnea. Sleep. 2019 Oct 21. pii: zsz243. doi:
	10.1093/sleep/zsz243. [Epub ahead of print].
Professional and research papers	1
In methodology and quality of	
teaching published in the last five	
years (max 5 references)	
Professional and research projects	2014 – present, scientific project "Translational research on
out in the last five years (may 5	anesthesia and sleep" HB77 (investigator)
references)	2018 - present "Normative models of vascular biomarkers for
	improving cardiovascular risk stratification in primary and secondary
	prevention" HRZZ (investigator)
Within which program and to what	Skills course of medical education and scientific work, University of
extent did the course teacher acquire	Split School of Medicine, 2019.
methodological, psychological,	
didactic and pedagogical	
Prizes and awards for teaching and	2011 - Award of the Faculty Council for outstanding achievement
research	during the study. University of Split School of Medicine
	2013 – Best poster presentation award at the 5th Croatian Diabetes
	Congress with international participation, Pula, Croatia
	2014 - Award for best rated teacher according to student survey
	results (Dental medicine study)
	2018 - Award for best rated teacher according to student survey
	results (Medical Studies in English)
	2019 - Award for best rated teacher according to student survey
	results (Medical Studies in English)

Title of the course at the proposed study programmePathophysiologyGENERAL INFORMATION ON COURSE L-DERE-mail addressanteo.bradaric@gmail.comYear of birth1963.Scientist ID281640CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYUniversity Hospital of Split; University of Split School of Medicine 1995.Institution of employmentUniversity Hospital of Split; University of Split School of Medicine 2005 specialist; assistant professor associate teacher, etc.)Field of increase to the clast associate teacher, etc.)Cardiagenerule directes to the professorInstitution of employmentUniversity Hospital of Split; University of Split School of Medicine 2005 specialist; assistant professorDate of employmentCardiology specialist; assistant professorDisold te cacher, etc.)Cardiology specialist; assistant professorSick of te cacher, etc.)Cardiology specialist; assistant professor	Title, name and last name	Assist. Prof. Anteo Bradarić Šlujo, MD, PhD
study programmeGENERAL INFORMATION ON COURSE LE-mail addressanteo.bradaric@gmail.comYear of birth1963.Scientist ID281640CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYUniversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiauseulo disease Osthershurialere	Title of the course at the proposed	Pathophysiology
GENERAL INFORMATION ON COURSE LEADERE-mail addressanteo.bradaric@gmail.comYear of birth1963.Scientist ID281640CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYJomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYUniversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiageneu/be diageneu/be diagene	study programme	
E-mail addressanteo.bradaric@gmail.comYear of birth1963.Scientist ID281640CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOY/ENTInstitution of employmentInstitution of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	GENERAL INFORMATION ON COURSE LE	EADER
Year of birth1963.Scientist ID281640CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYMENTUniversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	E-mail address	anteo.bradaric@gmail.com
Scientist ID281640CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYMENTInstitution of employmentInstitution of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	Year of birth	1963.
CROSBI profile ID23574Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYInversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	Scientist ID	281640
Research rank and date of the last appointmentscientific associate; 2014Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOY/biomedicine and health, clinical medical sciencesInstitution of employmentUniversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	CROSBI profile ID	23574
appointmentAssist. Prof 23.07.2014.Research and teaching or teaching rank, and the date of the last appointmentAssist. Prof 23.07.2014.Area and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYMENTbiomedicine and health, clinical medical sciencesInstitution of employmentUniversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	Research rank and date of the last	scientific associate; 2014
Research and teaching or teaching rank, and the date of the last appointment Assist. Prof 23.07.2014. Area and field of appointment into research rank biomedicine and health, clinical medical sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment University Hospital of Split; University of Split School of Medicine Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	appointment	
rank, and the date of the last appointmentbiomedicine and health, clinical medical sciencesArea and field of appointment into research rankbiomedicine and health, clinical medical sciencesINFORMATION ON CURRENT EMPLOYMENTInstitution of employmentUniversity Hospital of Split; University of Split School of MedicineDate of employment1995.Job title (professor, researcher, associate teacher, etc.)Cardiology specialist; assistant professor	Research and teaching or teaching	Assist. Prof 23.07.2014.
appointment Area and field of appointment into research rank biomedicine and health, clinical medical sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Hospital of Split; University of Split School of Medicine Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	rank, and the date of the last	
Area and field of appointment into biomedicine and health, clinical medical sciences research rank biomedicine and health, clinical medical sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Hospital of Split; University of Split School of Medicine Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	appointment	
research rank INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Hospital of Split; University of Split School of Medicine Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	Area and field of appointment into	biomedicine and health, clinical medical sciences
INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Hospital of Split; University of Split School of Medicine Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	research rank	
Institution of employment University Hospital of Split; University of Split School of Medicine Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	INFORMATION ON CURRENT EMPLOYM	
Date of employment 1995. Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	Institution of employment	University Hospital of Split; University of Split School of Medicine
Job title (professor, researcher, associate teacher, etc.) Cardiology specialist; assistant professor	Date of employment	1995.
associate teacher, etc.)	JOD TITLE (professor, researcher,	Cardiology specialist; assistant professor
	associate teacher, etc.)	Cardiana di ang Ratharharia ba
Pasitian in the institution Executor	Preid of research	
INFORMATION ON EDUCATION Highert degree achieved		Executor
Degree Degree Chieved	Dograd	Dector of Medical Sciences (PhD)
Institution	Institution	University of Zagreb School of Medicine
Place Solit	Place	Snlit
Date 2012	Date	2012
INFORMATION ON ADDITIONAL TRAINING	INFORMATION ON ADDITIONAL TRAINI	NG
Year 2009.	Year	2009.
Place Split	Place	Split
Institution University Hospital of Split	Institution	University Hospital of Split
Field of training Interventional cardiology	Field of training	Interventional cardiology
MOTHER TONGUE AND FOREIGN LANGUAGES	MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue Croatian	Mother tongue	Croatian
Foreign language and command of English 4/5	Foreign language and command of	English 4/5
foreign language on a scale from 2	foreign language on a scale from 2	
(sufficient) to 5 (excellent)	(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	COMPETENCES FOR THE COURSE	Γ
Earlier experience as course Elective classes in interventional cardiology and electrocardiograms	Earlier experience as course	Elective classes in interventional cardiology and electrocardiograms
teacher of similar courses (title of Pathophysiology of the cardiovascular system	teacher of similar courses (title of	Pathophysiology of the cardiovascular system
course, study programme where it	course, study programme where it	
is/was held, and level of study	is/was held, and level of study	
programme)	programme)	Clinical anthony buriels and a stigarthy angle 2012 (showing
Authorship of university textbooks Clinical pathophysiology - etiopathogenetic hodes 2013 (chapter	Authorship of university textbooks	Clinical pathophysiology - etiopathogenetic hodes 2013 (chapter
	from the held of the course	
Professional and research papers 1 Borovac JA D'Amario D. Schwarz K. Bradarić A. Božić J. Glavaš	Professional and research papers	1 Borovac IA D'Amario D Schwarz K Bradarić A Božić I Glavaš
published in the last five years from D. The effect of P2Y12 inhibitor pretreatment vs no	published in the last five years from	D The effect of P2Y12 inhibitor pretreatment vs no
the field of the course (max 5 pretreatment on major bleeding among patients with NSTE-	the field of the course (max 5	pretreatment on major bleeding among nations with NSTE-
references)	references)	ACS: an undated meta analysis and meta, regression pooling
ACS. all upualeu mela-analysis anu mela- regression pooling		ALS, an upualed mela-analysis and mela- regression pooling
Ovford University Press, 2021		Avford University Press, 2021
Okioru University Fress, 2021.		2 Porovac IA D'Amaria D. Clavas D. Sužilović Crahovas Z. Šura
2. BOLOVAC JA, D'AHIAHO D, GIAVAS D, SUSHOVIC GIADOVAC Z, SUPE		2. Dorovac JA, D'Amano D, Glavas D, Susilovic Glabovac Z, Supe
The S2PLIT-LIG score a novel system identifying natients with a		The S2PLIT-UG score a novel system identifying natients with a

	 of heart failure, correlates with levels of SST2, hs-cTnT and NT- proBNP. Eur J Heart Fail. 2020;22:27-28. Borovac JA, Božić J. Sušilović Grabovac Z, Šupe Domić D, Tičinović Kurir T, Bradarić A, Živković PM, Vilović M, Novak K, Glavaš D. Catestatin serum levels are inversely associated with adverse structural and hemodynamic profile among patients with acutely decompensated heart failure: preliminary echocardiographic findings. Abstracts of the Heart Failure. 2019; pp. 112-113. Giunio L, Lozo M, Bradarić A, Zanchi J, Giunio L. Coronary perforation in STEMI PCI simultaneously treated by pericardiocent esis and covered stent implantation. How to manage coronary perforation Part 2. EuroPCR. 2018. Giunio L, Lozo M, Bradarić A, Zanchi J, Giunio L. When less is more. How to manage left stem dissections. EuroPCR. 2018.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	As part of the acquisition of the scientific - teaching title of assistant professor, passed the Skills course of medical education and scientific work, University of Split School of Medicine, 2014.
PRIZES AND AWARDS Prizes and awards for teaching and research	

Title, name and last name of the course leader	Asst. Prof Esma Čečuk-Jeličić, PhD
Title of the course at the proposed	Introduction to Laboratory Medicine. Clinical skills II. Basics of
study programme	Haematology and Coagulation. Basics of Transfusion Medicine and
,, , ,	Transplantation, Laboratory Immunology and Immunochemistry,
	Immunogenetics
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	esma.cecuk@gmail.com
Year of birth	1958.
Scientist ID	159124
CROSBI profile ID	13295
Research rank and date of the last	Research associate, July 2017
appointment	
Research and teaching or teaching	Assistant Professor, 21.12.2017.
rank, and the date of the last	
appointment	Network sciences Dislam
research rank	Natural sciences, Biology
INFORMATION ON CURRENT EMPLOYM	ENT
Institution of employment	University Hospital Centre Split
Date of employment	02.11.2010.
Job title (professor, researcher,	Head of Tissue Typing Laboratory, Division of Trasfusion Medicine
associate teacher, etc.)	
Field of research	Molecular biology
Position in the institution	Head of Tissue Typing Laboratory, Division of Trasfusion Medicine
INFORMATION ON CURRENT EMPLOYM	ENT
Institution of employment	University Department of Health Studies
Date of employment	29.01.2018.
Job title (professor, researcher,	Assistant Professor
associate teacher, etc.)	Madiael Laborate en Dia en activa
Field of research	Medical Laboratory Diagnostics
	t degree exhibited
Degree	Dector of Science (DhD)
Institution	Eaculty of Science, Department of Biology, University of Zagreb
Place	Zagreh
Date	15.01.2008
INFORMATION ON ADDITIONAL TRAININ	IG
Year	1995.
Place	Geneve, Switzerland
Institution	Geneve University Hospital
Field of training	Molecular biology
MOTHER TONGUE AND FOREIGN LANGU	JAGES
Mother tongue	Croatian
Foreign language and command of	English (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	German (2)
toreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Course teacher of the above courses, Assistant of Head of
course study programme where it	Department for Iviedical Laboratory Diagnostics from 2016 2020.;
course, study programme where it	Head of Department for Medical Laboratory Diagnostics from 2020.

is/was held, and level of study	
Authorship of university textbooks	Čečuk-Jeličić. Esma: Kerhin-Brkliačić. Vesna. Odabir davatelja u
from the field of the course	transplantacijskoj medicini // Racionalna dijagnostika nasljednih
	i prirođenih bolesti / Barić, Ivo ; Stavljenić Rukavina, Ana (ur.).Zagreb :
Professional and research naners	Medicinska naklada, 2005. Šošo, Daniela: Alijnović, Jure: Lovrić Kojundžić, Sanja: Marinović
published in the last five years from	Ivanka; Čečuk Jeličić, Esma ; Marasović Krstulović, Daniela
the field of the course (max 5	Ultrasound-Verified Peripheral Arthritis in Patients with HLA-B*35
references)	Positive Spondyloarthritis // Life, 11 (2021), 6; 11060524, 10
	Šošo, D., Aljinović, J., Marinović, I. , Kojundžić S.L., Čečuk-Jeličić E.,
	Marasović-Krstulović D. The occurrence of sacroiliitis in HLA-B*35- nositive natients with undifferentiated spondyloarthritis. A cross
	sectional MRI study. Clin Rheumatol (2020).
	https://doi.org/10.1007/s10067-020-04999-4
	Jerončić A: Nonković D: Vrhatović A: Hrabar J: Bušelić J: Martinez-
	Sernandez, V; Lojo Rocamonde, S; Ubeira, F; Jaman, S; Čečuk Jeličić,
	E. Anisakis Sensitization in the Croatian fish processing workers:
	Behavioral instead of occupational risk factors? // PLoS Neglected
	https://doi:10.1371/journal.pntd.0008038
	Marinović I, Martinović Kaliterna D, Smoljanović M, Radić M, Cecuk-
	arthritis in Split- Dalmatia County in southern Croatia is 0.24%. Joint
	bone spine 2016; 83(4): 457-458
	Kačtelan M. Prnic Massari I., Brajac I. Peternel S. Čečuk-leličić F.
	Grubić Z, Kaštelan A. Učestalost haplotipskih sveza HLA-DRB1-DQA1-
	DQB1 u psorijatičara s pozitivnom i negativnom obiteljskom
	anamnezom psorijaze. Medicina Fluminensis 2015; 51(2):283-288.
Professional and research papers	
In methodology and quality of	
teaching published in the last five vears (max 5 references)	
Professional and research projects	Anisakis spp: genomic epidemiology (IP-11-2013) (Head: Prof Ivona
from the field of the course carried out	Mladineo)
in the last five years (max 5 references)	HIA class Land II allele frequency in central Dalmatia nonulation"-
	Institutional project of University Department of Health Studies
	(Head: Asst. Prof. Esma Čečuk-Jeličić)
Within which program and to what	"Medical Education Course", University of Split, School of Medicine
methodological, psychological,	"Basic course of communication skills", University Department of
didactic and pedagogical	Health Studies
competencies?	
Prizes and awards for teaching and	
research	

Title, name and last name	Assistant professor Ana Ćurković
Title of the course at the proposed	Sociology of Health
study programme	Health Care Ethics
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	ana.curkovic@ozs.unist.hr
Year of birth	1988.
Scientist ID	336731
CROSBI profile ID	31752
Research rank and date of the last	1
appointment	
Research and teaching or teaching	assistant professor, 24.11.2020.
rank, and the date of the last	
appointment	
Area and field of appointment into	Area of biomedicine and health, field of public health and health care,
research rank	branch of social medicine
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	University of Split, University Department of Health Studies
Date of employment	1.4.20212.
Job title (professor, researcher,	assistant professor
associate teacher, etc.)	
Field of research	Social medicine
Position in the institution	assistant professor
INFORMATION ON EDUCATION - Highe	st degree achieved
Degree	PhD
Institution	Split School of Medicine
Place	Split
Date	29.10.2018.
INFORMATION ON ADDITIONAL TRAINI	NG
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Previous participation in courses as a teaching assistant and
teacher of similar courses (title of	postdoctoral researcher
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	1
from the field of the course	
Professional and research papers	Lukežić, Marina; Ćurković, Ana; Kolčić, Ivana; Polašek, Ozren.
published in the last five years from	Socioeconomic status and psychological distress do not predict
the field of the course (max 5	mortality risk in the island population of Vis, Croatia // Journal of
references)	Global Health Economics and Policy, 1 (2021), 1; 2021016, 7
	doi:10.52872/001c.29662
	Renberg, Joshua; Stipčić, Ana; Corić, Tanja; Kolčić, Ivana; Polašek,
	Ozren. Mortality patterns in Southern Adriatic islands of Croatia: a

	registry-based study // Croatian Medical Journal, 59 (2018), 3; 118-123 doi:10.3325/cmj.2018.59.118
	Stipčić, Ana. Važnost socioekonomskih pokazatelja u određivanju zdravlja i zdravstvenih rizika u južnoj Hrvatskoj, 2018., doktorska disertacija, Medicinski fakultet Split, Split.
	Šolić, Ivana; Stipčić, Ana; Pavličević, Ivančica; Marušić, Ana Transparency and public accessibility of clinical trial information in Croatia: how it affects patient participation in clinical trials // Biochemia Medica: The journal of The Croatian Society of Medical Biochemistry and Laboratory Medicine, 27 (2017), 2; 259-269 doi:10.11613/BM.2017.027.
Professional and research papers	Antičević, Vesna; Sindik, Joško; Klarin, Mira; Đogaš, Varja; Stipčić, Ana;
In methodology and quality of	Kardum, Goran; Barač, Ivana; Zoranić, Sanja; Perković Kovačević,
teaching published in the last five	Marina Efforts of social skills training among frashman undergraduate nursing
years (max 5 references)	students: a randomized controlled trial // Medica ladertina, 48 (2018)
	1-2; 23-32
Professional and research projects	1
from the field of the course carried	
out in the last five years (max 5	
references)	Drafassianal davalanment, Davalanment and improvement of
extent did the course teacher acquire	nedagogical competencies of university teachers
methodological psychological	University of Split Eaculty of Philosophy CIRCO - Center for Lifelong
didactic and pedagogical	Research and Development Education (2014)
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	Award for the best poster presentation in the category of young
research	researchers, HandsOn: Biobanks 2014, Helsinki, Finland.

Title, name and last name	Full Professor (tenure) Irena Drmić Hofman, PhD, MSc
Title of the course at the proposed	Biochemistry
study programme	Introduction to laboratory medicine
	Biochemistry II
	Molecular Biology Techniques in Medicine
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	idhofman@ozs.unist.hr
Personal web page	https://www.bib.irb.hr/pregled/profil/25009
Year of birth	1965
Scientist ID	219413
CROSBI profile ID	25009
Research rank and date of the last	Scientific Advisor with Tenure, July 26, 2019
appointment	
Research and teaching or teaching	Full Professor with Tenure, December 18, 2019
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Basic Medical Sciences
research rank	
INFORMATION ON CURRENT EMPLOYN	/ENT
Institution of employment	University of Split School of Medicine
Date of employment	1 April 1995
Job title (professor, researcher,	Full Professor with Tenure
associate teacher, etc.)	
Field of research	Biochemistry and Molecular Biology
Position in the institution	Head of Department of Chemistry and Biochemistry
INFORMATION ON CURRENT EMPLOYMENT	
Institution of employment	University Department of Health Studies, University of Split
Date of employment	20 April 2021
Job title (professor, researcher,	Full Professor with Tenure
associate teacher, etc.)	
Field of research	Biochemistry and Laboratory Diagnostics
Position in the institution	Assistant to the Head for Science and International Cooperation
INFORMATION ON EDUCATION – Highe	est degree achieved
Degree	PhD
Institution	University of School of Zagreb School of Medicine
Place	Zagreb, Croatia
Date	27 October 2003
INFORMATION ON ADDITIONAL TRAIN	ING
Year	1995
Place	Verona, Italy
Institution	Institute of Biology and Genetics, School of Medicine
Field of training	Molecular genetics and Population genetics
Year	1998, 1999, 2000, 2001
Place	Bielefeld, Germany
Institution	Institute for Cell Culture Technology, University of Bielefeld
Field of training	
Year	2004-2005
Place	Munster, Germany
Institution	
	Linternative of MAtternative In attracts for MARSHarl
	University of Wunster, Institute for Wealcal
	Physics and Biophysics
Field of training	Tumor Glycomics (DAAD Fellowshin)
MUTHER TUNGUE AND FUREIGN LANGUAGES	

Mother tongue	Croatian
English	5
Italian	4
German	2
COMPETENCES FOR THE COURSE	
Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)	 Nutrition and Health (elective course, Study of Medicine) Biochemistry (University of Split Department of Health Studies, USDHS, undergraduate study) Biochemistry 2 (USDHS, undergraduate study) Molecular Biology Techniques in Medicine (USDHS, undergraduate study) Molecular Methods in Tumor Diagnostics, Tumor Glycomics, Molecular Research Methods in Glycomedicine (elective courses, University of Split School of Medicine, Postgraduate study Tumor Biology) Diagnostic of Genetic and Chromosomal Disorders, (elective course, University of Split School of Medicine, Postgraduate study TRIBE)
Authorship of university textbooks from the field of the course	
Professional and research papers published in the last five years from the field of the course (max 5 references)	 Oršolić I, Bursać S, Jurada D, Drmić Hofman I, Dembić Z, Bartek J, Mihalek I, Volarević S. Cancer-associated mutations in the ribosomal protein L5 gene dysregulate the HDM2/p53-mediated ribosome biogenesis checkpoint. <i>Oncogene</i>. 2020; 39(17):3443-57. Galusic D, Lucijanic M, Livun A, Radman M, Blaslov V, Vicelic Cutura L, Petric M, Miljak A, Lucijanic J, Drmic Hofman I, Kusec R. Higher AURKA and PLK1 expression are associated with inferior overall survival in patients with myelofibrosis. <i>Blood Cells Mol Dis</i>. 2020:102396. Galusic D, Lucijanic M, Livun A, Radman M, Lucijanic J, Drmic Hofman I, Kusec R. CDC25c expression in patients with myelofibrosis is associated with stronger myeloproliferation and shorter overall survival. <i>Wien Klin Wochenschr</i>. 2020. doi: 10.1007/s00508-020- 01738-2. Šupe-Domić D, Milas G, Stanišić L, Drmić Hofman I, Martinović Klarić I. Reference intervals for six salivary cortisol measures based on the Croatian Late Adolescence Stress Study (CLASS). <i>Biochem Med</i> (Zagreb). 2018;28(1):010902. Milas G, Šupe-Domić D, Drmić Hofman I, Rumora L, Martinović Klarić I. Weather conditions: a neglected factor in human salivary cortisol research? <i>Int J Biometeorol</i> 2018; 62(2):165-75.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	 Drmić Hofman I. Metode molekularne genetike u leukemijama i limfomima. U: genetičko informiranje u praksi. Čulić V, Pavelić J, Radman M (Ur.). Medicinska naklada, Zagreb, 2016.
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	 Regulation of receptor-mediated mitophagy in erythroid lineage cells - <u>MitoReg</u>. PI: Assoc. Prof. Ivana Novak Nakir, Financed by Croatian Science Foundation (IP-2020-02, duration 2021-2025)
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	 IUBMB International Workshop on Biochemistry Education, University of Split School of Medicine, Croatia, 2011. FEBS Workshop on Education in Biochemistry and Molecular Biology, Opatija, Croatia, 2010.

PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and last name	Asst. Prof. Varja Đogaš, MD, PhD
Title of the course at the proposed	Health Care Psychology
study programme	
GENERAL INFORMATION ON COURSE LI	EADER
E-mail address	varjagd@gmail.com
Year of birth	1964.
Scientist ID	346596
CROSBI profile ID	32592
Research rank and date of the last	Assistant Professor, August 1, 2017
appointment	
Research and teaching or teaching	Assistant Professor
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and health, Basic medical sciences
research rank	
INFORMATION ON CURRENT EMPLOYN	IENT
Institution of employment	School of Medicine University of Split
	Faculty of Humanities and Social Sciences University of Split
Date of employment	February 1, 2009
Job title (professor, researcher,	Assistant Professor
associate teacher, etc.)	Developical Madicina
Preid of research	Psychological Medicine
	st degree ashieved
Degree	
	FID School of Modicino University of Split
Risco	School of Medicine Oniversity of Spin
Date	Spint February 22, 2015
	NG
Vear	2021
Place	Zagreh
Institution	Institute of Group Analysis
Field of training	Group analysis
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2022
Place	Zagreb
Institution	Croatian Society of Psychoanalytic Psychotherapy
Field of training	Psychoanalytic Psychotherapy
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English - 4
foreign language on a scale from 2	6
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian - 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Deutch - 2
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Undergraduate education:
teacher of similar courses (title of	Psychological medicine I and Psychological medicine II (Medicine,
course, study programme where it	Medical Studies in English)
is/was held, and level of study	Psychological medicine (Dental Medicine)
programme)	

	Doctoral education:
	Communication Skills
Authorship of university textbooks from the field of the course	
Professional and research papers published in the last five years from	 Žuljević, Marija Franka; Jeličić, Karlo; Viđak, Marin; Đogaš, Varja; Buljan, Ivan
the field of the course (max 5	Impact of the first COVID-19 lockdown on study satisfaction and
references)	burnout in medical students in Split, Croatia: a cross-sectional
	presurvey and postsurvey // BMJ Open, 11 (2021), 6; e049590, 11 doi:10.1136/bmjopen-2021-049590
	 Antičević, Vesna; Sindik, Joško; Klarin, Mira; Đogaš, Varja; Stipčić, Ana; Kardum, Goran; Barać, Ivana; Zoranić, Sanja; Perković Kovačević, Marina
	Effects of social skills training among freshman undergraduate
	nursing students: a randomized controlled trial // Medica
	Jadertina, 48 (2018), 1-2; 23-32
	 Antičević, Vesna; Sindik, Joško; Klarin, Mira; Đogaš, Varja; Stipčić, Ana; Kardum, Goran; Barać, Ivana; Zoranić, Sanja; Perković Kovačević, Marina
	Effects of social skills training among freshman undergraduate
	nursing students: a randomized controlled trial // Medica
	Jadertina, 48 (2018), 1-2; 23-32
	4. Đogaš, Varja ; Donev, Doncho M.; Kukolja-Taradi, Sunčana;
	Đogaš, Zoran; Ilakovac, Vesna; Novak, Anita; Jerončić, Ana
	No difference in the intention to engage others in academic
	transgression among medical students from neighboring countries:
	<u>A cross-national study on medical students from Bosnia and</u> Herzegovina, Croatia, and Macedonia // Croatian medical
	<i>journal,</i> 57 (2016), 4; 381-391 doi:10.3325/cmj.2016.57.381
Professional and research papers	
In methodology and quality of	
teaching published in the last five	
Professional and research projects	Internationalization of study programs at all levels at the Faculty of
from the field of the course carried	Medicine in Split - Operational Program "Effective Human
out in the last five years (max 5	Resources (2014-2020) – associate
references)	Project MEDICINSKA +; – associate
Within which program and to what	
methodological, psychological.	
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and last name	prof. Merica Glavina Durdov, full professor
Title of the course at the proposed	Pathology
study programme	Cytology and Histology
	Laboratory histopathological techniques
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	merigdst@yahoo.co.uk
Personal web page	no
Year of birth	1960.
Scientist ID	207682
CROSBI profile ID	15548
Research rank and date of the last	scientific consultant, 2017.
appointment	
Research and teaching or teaching	full professor, 2017.
rank, and the date of the last	
appointment	
Area and field of appointment into	Pathology
INFORMATION ON CURRENT EMPLOYM	ENT
Data of employment	University nospital split and School of Medicine
Date of employment	1988 In the Hospital and 2001 in the School of Medicine
Job title (professor, researcher,	professor
Eigld of research	Dathology
Position in the institution	Pathology
	t degree achieved
Degree	
Institution	Medical School University of Zagreb
Place	
Date	2000
INFORMATION ON ADDITIONAL TRAININ	NG
Year	2000
Place	Liubliana
Institution	Medical school University of Liubliana
Field of training	Nephropathology
MOTHER TONGUE AND FOREIGN LANG	JAGES
Mother tongue	Croatian
Foreign language and command of	English, (4)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Course teacher of Patology
teacher of similar courses (title of	undergraduate study of Nursing, University of Dubrovnik
course, study programme where it	graduate study of Medicine, University of Mostar, BH
is/was held, and level of study	
programme)	
Authorship of university textbooks	Pathology, Medicinska naknada, Zagreb
Professional and research papers	Simundra I Kraie D. Juricia I. Donton D. Simundra D. Stanicia
published in the last five years from	Simunuza I, Kinic D, Junicic J, Benzon B, Simunuza K, Stanicic IM Caplup V, Vukojević K, Glavina Durdov M, Expression of PD 11 ic
the field of the course Imay 5	associated with inflammatory microenvironment in surgical
references)	specimens of non-small cell lung cancer I Pers Med 2021-11-767
	Mizdrak M. Filipović N. Vukojević K. Čankun V. Mizdrak I. Durdov MG
	Prognostic value of connective tissue growth factor and c-Mvh
	expression in IgA nephropathy and Henoch-Schönlein purpura - a

	pilot immunohistochemical study. Acta Histochem.
	2020;122:151479.
	Piljić Burazer M, Mladinov S, Matana A, Kuret S, Bezić J, Glavina
	Durdov M. Low ERCC1 expression is a good predictive marker in lung
	adenocarcinoma patients receiving chemotherapy based on platinum
	in all TNM stages - a single-center study. Diagnostic Pathology 2019;105-8.
	Mizdrak M, Vukojević K, Filipović N, Čapkun V, Benzon B, Glavina
	Durdov M. Expression of DENDRIN in several glomerular diseases and
	correlation to pathological parameters and renal failure - preliminary
	study. Diagnostic Pathology 2018; 13: 90.
Professional and research papers	Benzon B, Vukojević K, Filipović N, Tomić S, Glavina Durdov M.
In methodology and quality of	Factors that determine completion rates of biomedical students in a
teaching published in the last five	PhD programme. Education sciences 2020; 10:336-8.
years (max 5 references)	
Professional and research projects	I am a researcher on two scientific projects of the Croatian
from the field of the course carried out	Science Foundation:
in the last five years (max 5	
references)	"Characterization of candidate genes for congenital anomalies of the
	kidney and urotract (CAKUT) during development in mice and
	humans" (prof. Katarina Vukojević)
	"Genotype-phenotype correlations in Alport syndrome and thin
	glomerular basement membrane nephropathy (prof. Danica Galešić
	Ljubanović)
Within which program and to what	during my longterm practical work with the students and in the
extent did the course teacher acquire	methodological courses
methodological, psychological,	
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and last name	Professor Ivica Grković, MD, PhD, full professor
Title of the course at the proposed	Anatomy
study programme	
GENERAL INFORMATION ON COURSE LI	EADER
E-mail address	lvica.grkovic@mefst.hr
Year of birth	1964
Scientist ID	173423
CROSBI profile ID	13898
Research rank and date of the last	Scientific advisor, Biomedicine and Health – Preclinical medicine -
appointment	Anatomy, since 2009
Research and teaching or teaching	Full tenured professor of Anatomy, since 2014
annointmont	
Area and field of appointment into	Biomedicine and Health:
research rank	- Basic Medical Sciences
	- Anatomz
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	University of Split School of Medicine
Date of employment	September 2004
Job title (professor, researcher,	Full tenured professor
associate teacher, etc.)	
Field of research	Anatomy
Position in the institution	Head, Department of anatomy
INFORMATION ON EDUCATION – Highest degree achieved	
Degree	PhD
Institution	University of Melbourne, Department of anatomy and
	neuroscience
Place	Melbourne, Australia
	1997.
	1992-2004
Place	Melbourne Australia
Institution	The University of Melbourne
Field of training	Anatomy, neurobiology of the autonomic nervous system
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English – excellent (5)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian – sufficient (2)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	'Lecturer' (1998-2002) I 'Senior Lecturer' (2003-2004); Anatomy
course, study programme where it	and neuroscience, the University of Melbourne
is/was held, and level of study	
programme)	
Authorship of university textbooks	An@tomedia (A New Approach to Medical Education:
from the field of the course	Developments in Anatomy)
	Norman Eizenberg, Christopher Briggs, Priscilla Barker, Ivica
	Grkovic
	Mc Graw Hill Education, http://anatomediaonline.com/

Professional and research papers published in the last five years from the field of the course (max 5 references)	1. Ključević N, Boban D, Milat AM, Jurić D, Mudnić I, Boban M, Grković I . (2019) Expression of Leukocytes Following Myocardial Infarction in Rats is Modulated by Moderate White Wine Consumption. Nutrients. 11(8). pii: E1890. doi: 10.3390/nu11081890.
	2. Ljubkovic M, Gressette M, Bulat C, Cavar M, Bakovic D, Fabijanic D, Grkovic I , Lemaire C, Marinovic J. (2019) Disturbed Fatty Acid Oxidation, Endoplasmic Reticulum Stress and Apoptosis in Left Ventricle of Patients with Type 2 Diabetes Mellitus. Diabetes. 68(10):1924-33. doi: 10.2337/db19-0423.
	3. Režić-Mužinić N, Mastelić A, Benzon B, Markotić A, Mudnić I, Grković I , Grga M, Milat AM, Ključević N, Boban M. (2018) Expression of adhesion molecules on granulocytes and monocytes following myocardial infarction in rats drinking white wine. PLoS One.13(5) e0196842. doi: 10.1371/journal.pone.0196842.
	 4. Agnic I, Filipovic N, Vukojevic K, Saraga-Babic M, Grkovic I.(2018) Isoflurane post-conditioning influences myocardial infarct healing in rats. Biotech Histochem. 93(5):354-63. doi: 10.1080/10520295.2018.1443507.
	5. Ključević N, Milat AM, Grga M, Mudnić I, Boban M, Grković I . (2017) White Wine Consumption Influences Inflammatory Phase of Repair After Myocardial Infarction in Rats. J Cardiovasc Pharmacol. 70(5):293-99.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	1. Sapunar D, Marušić M, Puljak L, Grković I , Malički M, Marušić A, Čivljak M, Tanjić Ž. (2018) The Medical School of the Catholic University of Croatia: Principles, Goals, Standards and Organization. Acta Med Acad. 47(1):61-75.
	2. Sapunar D, Grković I , Lukšić D, Marušić M. (2016) Management of teaching processes using the Share point platform: A case study from the University of Split School of Medicine. <i>Acta Med Acad.</i> 45(1):34-8.
	3. Sapunar D, Grković I , Lukšić D, Marušić M. (2016) The business process management software for successful quality management and organization: A case study from the University of Split School of Medicine. <i>Acta Med Acad.</i> 45(1):26-33.
Professional and research projects from the field of the course carried	
out in the last five years (max 5 references)	1. Croatian Research Foundation: "Biological
,	effects of wine: the influence of vinification
	technology, dealcoholisation and aging of
Within which program and to what	Courses on Anatomy (since 1989) and Neuroscience (since 1993)
extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	from instructor/tutor to full tenured professor.
PRIZES AND AWARDS	

Prizes and awards for teaching and	2015.: Best teacher award in Dental medicine course in 2014/15.
research	2019.: Best teacher award in Dental medicine course in 2018/19.

Title, name and last name	Assistant professor Iris Jerončić Tomić, MD PhD
Title of the course at the proposed	Hygiene and epidemiology
study programme	
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	iris.jeroncic@mefst.hr
Year of birth	1966.
Scientist ID	345775
CROSBI profile ID	32487
Research rank and date of the last	Research associate
appointment	
Research and teaching or teaching	Assistant professor, 1 st September 2016
rank, and the date of the last	
appointment	
Area and field of appointment into	Public health and health care, Social medicine
INFORMATION ON CURRENT EMPLOYM	IENI University of Cult Cohool of Madiving
Institution of employment	
Lab title (professor, researcher	
Job title (professor, researcher,	Assistant professor
Field of rosparch	Public health and health care. Social medicine
Position in the institution	Head of the Department of Public Health
INFORMATION ON EDUCATION - Highe	nead of the Department of Public health
Institution	University of Split School of Medicine
Place	Snlit
Date	15 th July 2014
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2016
Place	Zagreb
Institution	Faculty of Medicine in Zagreb
Field of training	Palliative care
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English, 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Lecturer in Public Health (Social Medicine, Gerontology, Social
teacher of similar courses (title of	Media Medicine) at the University of Split School of Medicine
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	1. Mulić, R, Jerončić, I. Komunikacija u javnome zdravstvu //
from the field of the course	Javno zdravstvo / Puntaric, Dinko; Ropac, Darko ; Jurcev-
	Savicevic, Analianja (ur.). Zagreb: Medicinska naklada, 2015, str. 518-524
	Zagies. Mediciiska llakiada, 2013. Sti. 310-334
Professional and research papers	1 Jerončić Tomić Ι Mulić R Δσeism in the Δσe of Pandemic
published in the last five years from	Engleski // In medias res 10(18)#5 2021 (2021) 23/7-
the field of the course (max 5	2364 doi:10.46640/imr 10.19.4
references)	2 Jorončić I. Mudronia I. Mulić P. Current infectionus rick in
	 Jeronicic I, Ividul onja E, Ividile K. Current Infectiosus FISK In intermetional manifolds to ffin (151) to 150 per 1 fills
	international maritime traffic // 5th IMSC Book of

	Abstracts / Split: Faculty of Maritime Studies Split, 2013.
	str. 41-41
	 Mulić R, Jerončić Tomić I. Supplying ships with safe drinking-water // International maritime health, 71 (2020), 2; 123-128
	doi:10.5603/IMH.2020.0022 4 Mulić B. Busso A. Jerončić Tomić I. Study of Malaria Cases
	among Seafarers in Croatia and the Causes of Ineffective
	Chemoprophylaxis among them // Pedagogika
	(Sofia), 93 (2021), 6s; 121-131
	pojavnosti hiperuricemije i gihta na otoku Korčuli i otoku
	Visu s gradom Splitom i njegovom okolicom // Liječnički
	vjesnik : glasilo Hrvatskoga liječničkog
Professional and research naners	2007a, VOI.139 (2017), NO.5-6; 144-149
In methodology and quality of	and health literacy in seafarers: Views of the students of
teaching published in the last five	medicine and maritime science on contraception. Int Marit
years (max 5 references)	Health. 2018;69(3):163-170.
	2. Jeronici , Mudronja L, Mulic R. Current infectious Risks in International Maritime Traffic. Book Of Abstracts. 5th
	International Maritime Science Conference, Split, 2013;41.
	3. Jerončić, I Nikolić J Mulić R. Maritime Medicine and
	2014. International Maritime Science Conference
	Fakulteta za pomorstvo in promet, Portorož, 2014. str. 50-
	4. Mulic R, Jeroncic Tomic I, Vukic L. What Does A Doctor of Medicine Do at The Faculty of Maritime Studies? // Book of
	Proceedings, 8th International Maritime Science
	Conference / Kotor, Montenegro: CIP - Nacionalna
	5. Jerončić Tomić I. Stigma – mitovi i predrasude depresivnog
	poremećaja – uloga videa kao medija u psihoedukaciji
	(Boli me – video za promociju mentalnog zdravlja) In
	medias res: casopis filozofije medija, Vol. 6 No. 11, 2017.
Professional and research projects	1. "Internationalization of study programs at all levels at the
from the field of the course carried	Faculty of Medicine in Split" 2 "10 001 Dalmatians" of the Medical Faculty of the
references)	University of Split
	3. Seroepidemiology, hereditary predisposition and infectious
	diseases in Croatia.
Within which program and to what	Regular education and continuous lifelong training.
extent did the course teacher acquire	Medical Education Course, University of Split, 2014
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
TESEGIUI	

Title, name and last name	Associate Professor Anamarija Jurčev Savičević, MD
Title of the course at the proposed	Hygiene and Epidemiology
study programme	Public Health
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	anamarijajs@gmail.com
Year of birth	1968
Scientist ID	336981
CROSBI profile ID	31630
Research rank and date of the last	Senior Research Fellow
appointment	July 10, 2019
Research and teaching or teaching	Associate Professor
rank, and the date of the last	September 19, 2019
Area and field of appointment into	Piemedicine and health
research rank	Public health and health care
	Enidemiology
INFORMATION ON CURRENT EMPLOYM	Ent
Institution of employment	1. Teaching Institute for Public Health of the Split-Dalmatia County
	2. University Department of Health Studies. University of Split
Date of employment	1. December 12, 1997
	2. April 1, 2021
Job title (professor, researcher,	1. Epidemiology specialist
associate teacher, etc.)	2. Associate Professor
Field of research	1. Epidemiology
	2. Courses from the Department of Preventive Medicine
Position in the institution	1. Head of the Unit for Scientific Research, Head of the Department
	for the Control of Tuberculosis and Other Respiratory Infections
	2. Head of the Department of Preventive Medicine
Degree	t degree achieved
Degree	PID School of Modicino University of Solit
Risce	School of Medicine Oniversity of Spirt
Date	2012
	2012
Degree	Specialist in Enidemiology
Institution	PHI
Place	Split
Date	2002
INFORMATION ON ADDITIONAL TRAININ	IG
Year	2021
Place	Msida, Malta
Institution	Faculty of Education, University of Malta
Field of training	Applied Public Health
Year	2021
Place	Cadiz, Špain
Institution	Faculty of Education, University of Cadiz
Field of training	Applied Public Health
Year	2019

Place	Athens, Greece
Institution	Medical School National and Kapodistrian, University of Athens
Field of training	Epidemiology
Year	2018
Place	Florence, Italy
Institution	School of Human Health Sciencies, Universita degli Studi di Firenze
Field of training	Epidemiology
Year	2014
Place	Izmir, Turkey
Institution	World Health Organization
Field of training	Epidemiology
MOTHER TONGUE AND FOREIGN LANGU	JAGES
Mother tongue	Croatian
Foreign language and command of	English
foreign language on a scale from 2	Very Good
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian
foreign language on a scale from 2	Good
(sufficient) to 5 (excellent)	
Earlier experience as course	Travel Medicine- course leader
teacher of similar courses (title of	School of Medicine and School of Dental Medicine
is was hold, and level of study	Undergraduate
nrogramme)	Numerous undergraduate courses: Medicine of work with health
	ecology Hygiene Enidemiology Public health
	Health promotion. Law in medicine. Infection control and
	prevention. Dietetics. Medical Humanities. How to live a hundred
	years, Risk communication
Authorship of university textbooks	Jurčev Savičević A, Miše K. (eds). Tuberkuloza-stara dama u novom
from the field of the course	ruhu: Zagreb: Medicinska naklada, 2021.
	Puntarić D, Ropac D, Jurčev Savičević A. (eds.). Javno zdravstvo.
	Zagreb: Medicinska naklada, 2015.
Professional and research papers	1. Jurčev Savičević A, Ninčević J, Veršić Š, Cuschieri S,
published in the last five years from	Bandalović A, Turić A, Bećir B, Modrić T, Sekulić D.
the field of the course (max 5	Performance of Professional Soccer Players before and after
references)	COVID-19 Infection; Observational Study with an Emphasis
	on Graduated Return to Play. Int J Environ Res Public Health.
	2021;18(21):11688. 2 - Čurche M.Cillé P. Parté I. Invěsní Castižanté A. Caludié P.
	 Sunda M Gilic B, Peric I, Jurcev Savicevic A, Sekulic D. Evidencing the influence of the COVID 10 Devidencie and
	Evidencing the innuence of the COVID-19 Pandemic and
	Adolescents: A Preliminary Penort Healthcare (Basel)
	2021-9(6)-681
	3. Gilić B. Zenić N. Šenarović V. Jurčev Savičević A. Sekulić D
	Evidencing the influence of pre-pandemic sports
	participation and substance misuse on physical activity
	during the COVID 19 lockdown: a prospective analysis
	among older adolescents. Int J Occup Med Environ Health.
	2021;34:1-13.
	4. Andres M, van der Werf MJ, Ködmön C, Albrecht S, Haas W,
	Fiebig L, Survey study groupJurcev Savicevic A. Molecular
	and genomic typing for tuberculosis surveillance: A survey

	 study in 26 European countries. PLoS One. 2019;14(3):e0210080 Obradovic Salcin L, Miljanovic Damjanovic V, Jurcev Savicevic A, Ban D, Zenic N. Prospective Analysis of Prevalence, Trajectories of Change, and Correlates of Cannabis Misuse in Older Adolescents from Coastal Touristic Regions in Croatia. Int J Environ Res Public Health. 2019;16(16). pii: E2924
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	/
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	 SEA-EU Alliance. Impact of COVID-19 illness on professional soccer players (612468-EPP-1-2019-1-ES-EPPKA2-EUR-UNIV) SEA-EU Alliance. Impact of COVID-19 pandemic on work content satisfaction, psychophysiological distress and sense of control and cohesiveness among public health workers involved in pandemic control (612468-EPP-1-2019-1-ES- EPPKA2-EUR-UNIV)
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Skills of medical education and scientific work School of Medicine University of Split, 2012.
PRIZES AND AWARDS	
Prizes and awards for teaching and research	University of Split 2021. 4. Congress of Epidemiology with International Participation 2019. Croatian Medical Association 2018.

Title, name and last name	Asst. Prof. Vanja Kaliterna, M.D., PhD, Clinical Microbiology Specialist
Title of the course at the proposed study programme	Microbiology and parasitology Introduction to laboratory medicine Clinical Microbiology Molecular Biology Techniques in Medicine
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	vanja.kaliterna@gmail.com
Year of birth	15th September 1968
Scientist ID	300762
CROSBI profile ID	23993
Research rank and date of the last appointment	Research Associate, 13th October 2015
Research and teaching or teaching rank, and the date of the last appointment	Assistant Professor, 2nd June 2016
Area and field of appointment into research rank	Area Biomedicine and Health Field Clinical medical sciences, Medical Microbiology
INFORMATION ON CURRENT EMPLOYM	IENT
Institution of employment	Teaching Public Health Institute of Split-Dalmatia County
Date of employment	1. 12. 1997.
Job title (professor, researcher,	Head of Department for Molecular Diagnosis and Diagnosis of
associate teacher, etc.)	Genital Infections
Field of research	Medical Microbiology
Position in the institution	Head of the Department of Clinical Microbiology TPHI SDC
INFORMATION ON CURRENT EMPLOYM	1ENT
Institution of employment	University Department of Health Studies, , University of Split
Date of employment	1. 2. 2020.
Job title (professor, researcher, associate teacher, etc.)	Assistant Professor
Field of research	Medical Microbiology
Position in the institution	
INFORMATION ON EDUCATION - Highe	st degree achieved
Degree	Doctor of Science (PhD)
Institution	School of medicine, University of Split
Place	Split
Date	24. 3. 2014.
INFORMATION ON ADDITIONAL TRAINI	NG
Year	1998.
Place	Farmington, Connecticut, USA
Institution	University of Connecticut Health Center
Field of training	Molecular biology (University Postdoctoral Fellow in the Department of Pediatrics)
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	croatian
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	english (4-5)
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	german (3)
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)	italian (3)

COMPETENCES FOR THE COURSE		
Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)	Course teacher: Microbiology and Parasitology and Clinical Microbiology	
Authorship of university textbooks from the field of the course	 Kaliterna V. Bakterijska vaginoza. U: Zekan J, Šitum M, Karelović D, Marinović B, ur. Vulvologija. Zagreb: Medicinska naklada, 2020., str. 51-4. Kaliterna V. Ortomiksovirusi (virusi Influence). U: Brooks GF, Carroll KC, Butel JS, Morse SA, Mietzner TA, ur. "Medicinska mikrobiologija (Jawetz, Melnick i Adelberg)", Placebo d.o.o., 2015. (Medical Microbiology. 26th ed. New York: McGraw-Hill; 2013.) Kaliterna V. Bunyaviridae. U: Uzunović-Kamberović S, ur. Medicinska mikrobiologija. Zenica: Štamparija Fojnica, 2009. str. 851-5. 	
Professional and research papers published in the last five years from the field of the course (max 5 references)	 Vilibic-Cavlek T, Stevanovic V, Ilic M, Barbic L, Capak K, Tabain I, Krleza JL, Ferenc T, Hruskar Z, Topic RZ, Kaliterna V, Antolovic- Pozgain A, Kucinar J, Koscak I, Mayer D, Sviben M, Antolasic L, Milasincic L, Bucic L, Ferencak I, Kaic B. SARS-CoV-2 Seroprevalence and Neutralizing Antibody Response after the First and Second COVID-19 Pandemic Wave in Croatia, Pathogens. 2021 Jun 20;10(6):774. Kaliterna V, Barišić Z. Genital human papillomavirus infections. Front Biosci (Landmark Ed). 2018;1;23:1587-611. Tonkić M, Sušić E, Goić-Barišić I, Kaliterna V, Tambić Andrašević A. Bakteriološka dijagnostiku infekcija mokraćnog i spolnog sustava: smjernice za mikrobiološku dijagnostiku Hrvatskog društva za kliničku mikrobiologiju Hrvatskog liječničkog zbora.Zagreb: Hrvatsko društvo za kliničku mikrobiologiju; 2017. Kaliterna V, Kaliterna M, Hrenović J, Barišić Z, Tonkić M, Goic- Barisic I. Acinetobacter baumannii in the Southern Croatia: clonal lineages, biofilm formation and resistance patterns. Infectious Diseases (Lond) 2015;47(12):902-7. Šimundža R, Kaliterna V, Mladinić Vulić D, Pejković S. The prevalence of Ureaplasma urealyticum bacterium in endocervical swabs in the Split-Dalmatia county. Gynaecol Perinatolog 2015;24(2):56-8. 	
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)		
Professional and research projects from the field of the course carried out in the last five years (max 5 references)		
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	 Course "Skills of medical education and scientific work", University of Split School of Medicine, 2016. Course "Basic Communication Skills Course ", University Department of Health Studies, University of Split, 2021. 	
Course leader Hygiene and Epidemiology Introduction to laboratory medicine Introduction to laboratory medicine Introduction to laboratory medicine Introduction to laboratory medicine Food Toxicology GENERAL INFORMATION ON COURSE LEADER E-mail address 2 latka.knezovic@nzj2-split.hr Year of birth 1952. Scientist ID 333313 Research rank and ted of the last appointment research associate, 01.07.2020. Appointment Assistant Professor, 24.11.2020. Area and field of appointment into research and teaching rank, and the date of the last ado the Department of Chemical Analysis of Food and General 15.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Use Items Job title (professor, researcher, Assistant Professor, associate teacher, etc.) Headth feology INFORMATION ON CURRENT EMPLOYMENT Instruction of employment Instruction of employment Use Items Sasciate teacher, etc.) Headth feology Position in the instruction Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Instructin of Facility C	Title, name and last name of the	Assistant professor Ph.D. Zlatka Knezović, B.Sc
--	--------------------------------------	---
Inte ourse at the proposed Hygene and spidemiology study programme Instrumental techniques in MLD Food Toxicology Food Toxicology GENERAL INFORMATION ON COURSE LEADER Itala. Anezovic@m2j-split.hr E-mail address 2latka.knezovic@m2j-split.hr Year of birth 1962. Scientist ID 353820 CROSBI profile ID 33313 Research rank and date of the last appointment research associate, 01.07.2020. Research and teaching or teaching rank, and the date of the last appointment Assistant Professor, 24.11.2020. Area and field of appointment into research rank. Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institute for Public Health of Split Palmatia County Date of employment 16.07.1987. Job title (professor, researcher, associate teacher, etc.) Head of the Department of Chemical Analysis of Food and General Use items Institution of employment University Department of Health Euology. Service INFORMATION ON CURRENT EMPLOYMENT Institution Institution of employment 24.12.200. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Health Ecology. Servic		
Study programme Introduction to laboratory medicine Instrumental techniques in MLD Food Toxicology GENERAL INFORMATION ON COURSE LEADER Email address Zalta.k.nezovic@nzjz-split.hr Year of birth 1952. Scientist ID Scientist ID 353820 CROSBI profile ID 33313 Research rank and date of the last appointment research associate, 01.07.2020. Research and teaching or teaching rank, and the date of the last appointment Assistant Professor, 24.11.2020. Area and field of appointment into research anad Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, UB et mts Use terms Field of research Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Hort of research Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 24.31.2020. Dat title (professor, researcher, Assistant Professor) Feield of research Head of the Dep	litle of the course at the proposed	Hygiene and Epidemiology
Instrumental rechniques in MLD Food Toxicology GENERAL INFORMATION ON COURSE LEADER E-mail address zlatka knezovic@njz.split.hr Year of birth 1962. Scientist ID 353820 CROSBI profile ID 33313 Research ank and date of the last appointment research associate, 01.07.2020. Research and teaching or teaching rank, and the date of the last Assistant Professor, 24.11.2020. Area and field of appointment into research rank Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General ussociate teacher, etc.) Use Items Field of the search Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment 124.11.2020. Job title (professor, researcher, Assistant Professor Search Institution of employment 124.11.2020. Job title (professor, researcher, Assistant Professor Search P	study programme	Introduction to laboratory medicine
GENERAL INFORMATION ON COURSE LEADER E-mail address 2 latka knezovic@nzjz-split.hr Year of birth 1962. Scientist ID 353820 CROSBI profile ID 33313 Research rank and date of the last appointment research and teaching or teaching research rank and the date of the last appointment Area and field of appointment into research rank Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Iso7.1987. Iob title (professor, researcher, associate teacher, etc.) Use Items Field of research Health do the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Inversity Department of Chemical Analysis of Food and General associate teacher, etc.) Job title (professor, researcher, Health of research Health ecology Service INFORMATION ON CURRENT EMPLOYMENT Inversity Department of Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT University Department of Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Instruction of employment Instruction of employment 24.12.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diag		Instrumental techniques in MLD
GENERAL INFORMATION ON COURSE LEADER E-mail address 1284a.knezovic@nzj2-split.hr Year of birth 1962. Scientist ID 353820 CROSBI profile ID 33313 Research ank and date of the last appointment Research and teaching or teaching research and teaching or teaching rank, and the date of the last Assistant Professor, 24.11.2020. Area and field of appointment into Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Date to employment Use Items Field of research Heal the bepartment of Chemical Analysis of Food and General Use Items Istitution of employment Date of employment University Department of Health Studies Date of employment University Department of Health Studies Date of employment Variatize accence INFORMATION ON CURRENT EMPLOYMENT Introduces INStruction Department of Health Studies Date of empl		FOOD TOXICOLOGY
E-main address Zistka.nezvot(geng/2-spit.thr Year of birth 1962. Scientist ID 33333 Research rank and date of the last appointment research and teaching or teaching research associate, 01.07.2020. Research and teaching or teaching Assistant Professor, 24.11.2020. appointment Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Deputy Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment 1b Stitle (professor, researcher, assistant Professor Assistant Professor Side of ersearch Medical Laboratory Diagnostics Date of employment Z4.11.2020. Job title (professor, researcher, associate teachewed Deprofer of Science (PhD)<	GENERAL INFORMATION ON COURSE LI	ADER
Year of birth 1962. Scientist ID 33313 Research rank and date of the last assistant Professor, 24.11.2020. Appointment research and teaching or teaching rank, and the date of the last Assistant Professor, 24.11.2020. Appointment Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Biomedicine and Health, Basic Medical Sciences Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Use Items Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 24.13.2020. Job title (professor, researcher, Assistant Professor associate teacher, etc.) Assistant Professor Job title (professor, researcher, Assistant Professor Job title (professor,	E-mail address	ziatka.knezovic@nzjz-split.nr
Scientist ID 35820 CROSBI profile ID 33313 Research rank and date of the last appointment research associate, 01.07.2020. Research and teaching or teaching rank, and the date of the last appointment Assistant Professor, 24.11.2020. Area and field of appointment into research rank Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Instruction of employment Institution of employment University Department of Chemical Analysis of Food and General associate teacher, etc.) Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Faculty of Chemical Technology, University of Split INFORMATION ON EDUCATION ~ Highest degree achieved Degree Doctor of Science (PhD) Institution Institution Faculty of Chemical Technology, University of Split Place Split	Year of birth	1962.
CROSB profile ID 3333 Research and kand date of the last research ansociate, 01.07.2020. Research and teaching or teaching research and teaching or teaching rank, and the date of the last Assistant Professor, 24.11.2020. appointment Assistant Professor, 24.11.2020. Area and field of appointment into Biomedicine and Health, Basic Medical Sciences research rank Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Use Items INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Department of Health Studies Date of employment Date of employment 24.11.2020. Isb title (professor, researcher, assistant Professor Assistant Professor Sasciate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Information of Science (PhD) Instruction Faculty of Chemical Technology, University of Split Place		353820
Research rank and date of the last appointment research associate, 01.07.2020. Research and teaching or teaching rank, and the date of the last appointment Assistant Professor, 24.11.2020. Area and field of appointment into research rank Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Endergree achieved Date Split Date Split Oate Split Place Split Institution English (4) Freigh anguage and acommand of foreign language and acommand o		33313
appointment Assistant Professor, 24.11.2020. appointment Assistant Professor, 24.11.2020. Area and field of appointment into Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Teaching Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 24.11.2020. Job title (professor, researcher, assistant Professor Assistant Professor Sociate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Faculty of Chemical Technology, University of Split Place 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Croatian Proreign language on a s	Research rank and date of the last	research associate, 01.07.2020.
Research and teacning or teacning rank, and the date of the last Area and field of appointment into research rank Assistant Professor, 24.11.2020. INFORMATION ON CURRENT EMPLOYMENT Biomedicine and Health, Basic Medical Sciences Institution of employment Teaching institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Iob title (professor, researcher, associate teacher, etc.) Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment University Department of Health Studies Date of employment 24.11.2020. Iob title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Institution INFORMATION ON EDUCATION – Highest degree achieved Degree Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Croatian Year	appointment	
Fails, and the date of the fast Assistant Professor, 24.11.2020. appointment Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Biomedicine and Health, Basic Medical Sciences Institution of employment 16.07.1987. Job title (professor, researcher, associate teacher, etc.) Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment University Department of Health Studies Date of employment 24.11.2020. Job title (professor, researcher, assistant Professor) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Environ of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date Split Date Croatian Place Split Date Split (A) Origin language on a scale from 2 Croatian Field of training English (4) MOTHER TONGUE AND FOREIGN LANGUAGES<	Research and teaching or teaching	Assistant Drafassar 24.11.2020
appointment Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Biomedicine and Health, Basic Medical Sciences Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Use Items Field of research Health écology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment University Department of Health Studies Date of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Institution English (4) Foreign language and command of fo	rank, and the date of the last	Assistant Professor, 24.11.2020.
Area and the or appointment micro Biomedicine and Health, Basic Medical Sciences INFORMATION ON CURRENT EMPLOYMENT Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Department of Health Studies Date of employment University Department of Health Studies Date of employment Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Place Split Place Croatian Foreign language and command of foreign language an	Area and field of annointment into	
Testation and INFORMATION ON CURRENT EMPLOYMENT Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, sasociate teacher, etc.) Head of the Department of Chemical Analysis of Food and General use (terms Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment University Department of Health Studies Date of employment Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Inversite degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution English (4) Foreign language and command of foreign language and command of foreign language and command of English (4) Foreign language and command of foreign language and command of foreign language and command of	Area and neid of appointment into	Biomedicine and Health, Basic Medical Sciences
Institution of employment Teaching Institute for Public Health of Split-Dalmatia County Date of employment 16.07.1987. Job title (professor, researcher, Head of the Department of Chemical Analysis of Food and General associate teacher, etc.) Use Items Field of research Health écology Position in the institution Deputy Head of the Health Ecology Service INPORMATION ON CURRENT EMPLOYMENT Institution of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Faculty of Chemical Technology, University of Split Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Croatian Foreign language and command of foreign languag		
Institution of employment Teaching institute for Public Health of Spit-Valmata County Date of employment 16.07.1987. Job title (professor, researcher, etc.) Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT University Department of Health Studies Date of employment 24.31.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Institution INFORMATION ON EDUCATION – Highest degree achieved Degree Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Coratian Foreign language and command of foreign language a	Institution of omnlovmont	Teaching Institute for Public Health of Split Dalmatia County
Date of enhydynent District (professor, researcher, associate teacher, etc.) Head of the Department of Chemical Analysis of Food and General Use Items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment University Department of Health Studies Date of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Encoder of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Place Croatian Field of training English (4) MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Eader of the course Food Toxicology COMPETENCES FOR THE COURSE Leader of the course Food Toxicology	Date of employment	
Jub rule (processor), researcher, associate teacher, etc.) Use items Field of research Health ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution Institution INFORMATION ON EDUCATION – Highest degree achieved Degree Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year English (4) Freid of training English (4) MOTHER TONGUE AND FOREIGN LANGUAGES Institution Foreign language and command of foreign language and ascale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language and command of coreign language and command of coreign language and command of coreign language and command of foreign language and command of foreign language and command of c	Job title (professor, researcher	Head of the Department of Chemical Analysis of Food and General
associate teacher, etc.) Use terms Position in the institution Deputy Head of the Health Ecology Position in the institution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training English (4) MOTHER TONGUE AND FOREIGN LANGUAGES Inglish (4) Moreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course Leader of the course Food Toxicology	sob title (professor, researcher,	Head of the Department of Chemical Analysis of Food and General
Intel of research Intel in the distitution Deputy Head of the Health Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution English (4) Freigh anguage and command of foreign language a	Eigld of research	Health acalogy
FOSMONIANT THE INSTITUTION Deputy near of the nearth Ecology Service INFORMATION ON CURRENT EMPLOYMENT Institution of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language and command of torign language and command of language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course teacher of the course Food Toxicology Leader of the course Food Toxicology	Position in the institution	Deputy Head of the Health Ecology Service
Institution of employment University Department of Health Studies Date of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of coreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as course teacher of the course Food Toxicology teacher of similar courses (title of course, study programme where it		
Institution of employment 24.11.2020. Date of employment 24.11.2020. Job title (professor, researcher, assistant Professor Assistant Professor Position in the institution Institution INFORMATION ON EDUCATION – Highest degree achieved Degree Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course Leader of the course Food Toxicology	Institution of employment	University Department of Health Studies
Date of employment 24.11.2020. Job title (professor, researcher, associate teacher, etc.) Assistant Professor Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language and command of coreign language and command of foreign language and command of foreign language and command of foreign language and command of toreign language and command of goreign language and command of toreign language and commend preceign teacher of similar courses (title of	Date of employment	
Job the (professor, research, assistant Professor) Assistant Professor associate teacher, etc.) Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course Leader of the course Food Toxicology	Job title (professor, researcher	24.11.2020.
associate teacher, etc., Medical Laboratory Diagnostics Field of research Medical Laboratory Diagnostics Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language and command of foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course teacher of similar courses (ittle of course, study programme where it Leader of the course Food Toxicology	sob title (professor, researcher,	Assistant Professor
Presention Interlear Laboratory Diagnostics Position in the institution Institution INFORMATION ON EDUCATION – Highest degree achieved Degree Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of English (4) foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Field of research	Medical Laboratory Diagnostics
INFORMATION ON EDUCATION – Highest degree achieved Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of English (4) foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Earlier experience as course Leader of the course Food Toxicology	Position in the institution	
Degree Doctor of Science (PhD) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as course Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it		st degree achieved
Degree Decor of Science (FID) Institution Faculty of Chemical Technology, University of Split Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Place Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 English (4) foreign language and command of foreign language on a scale from 2 Italian (2) Gurfficient) to 5 (excellent) Eadler of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology		Dector of Science (PhD)
Place Split Date 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Place Place Institution Field of training Croatian MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Korier tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Institution	Eaculty of Chemical Technology, University of Split
Place 25.04.2016. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Blace	Solit
INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Date	25 04 2016
Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it		20.04.2010.
Place Institution Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Croatian Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course Leader of the course Food Toxicology teader of the course Food Toxicology	Vear	
Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of English (4) foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 Italian (2) foreign language on a scale from 2 Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Blace	
Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of English (4) foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of Italian (2) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Foreign language on a scale from 2 Italian (2) foreign language on a scale from 2 Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Institution	
MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Field of training	
Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology		
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (4) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Mother tongue	Creatian
Foreign language and command of (sufficient) to 5 (excellent) Linguist (4) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Leader of the course Food Toxicology Earlier experience as course teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Foreign language and command of	
Intering tangets of a scale from 2 (sufficient) to 5 (excellent) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it	foreign language on a scale from 2	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it	(sufficient) to 5 (excellent)	
foreign language on a scale from 2 (sufficient) to 5 (excellent) realist (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it Leader of the course Food Toxicology	Foreign language and command of	Italian (2)
(sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it	foreign language on a scale from 2	
COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it	(sufficient) to 5 (excellent)	
Earlier experience as course Leader of the course Food Toxicology teacher of similar courses (title of course, study programme where it	COMPETENCES FOR THE COURSE	
teacher of similar courses (title of course, study programme where it	Earlier experience as course	Leader of the course Food Toxicology
course, study programme where it	teacher of similar courses (title of	
	course, study programme where it	

is/was held, and level of study	
programme)	
Authorship of university textbooks from the field of the course	Sutlović, Davorka; Marušić, Jadranka; Stipišić, Angela; Poljak, Vedran; Laštre Primorac, Danja; Majić, Zrinka; Luetić, Sanja; Knezović, Zlatka; Papić, Jasminka; Žafran Novak, Jelena et al. Food toxicology / Sutlović, Davorka (ed.) Split: Redak, 2011.
	Sutlović, Davorka; Kovačić, Zdravko; Riha, Biserka; Žuntar, Irena; Tomašek, Ljubica; Bakulić, Lana; Nestić, Marina; Horvat, Vesna; Mandić, Sanja; Plavšić, Franjo et al. Fundamentals of forensic toxicology / Sutlović, Davorka (ed.) Split: Redak, 2011
Professional and research papers published in the last five years from the field of the course (max 5 references)	Nedoklan, Srđan; Knezović, Zlatka; Knezović, Nina; Sutlović, Davorka. Nutrition and mineral content in human teeth through the centuries // Archives of oral biology, 124 (2021) doi:.org/10.1016/j.archoralbio.2021.105075
	Nedoklan, Srđan; Tadin, Antonija; Knezović, Zlatka; Sutlović, Davorka. Comparison of dental caries in Croats from the early medieval period and the 20th century // Archives of oral biology, 109 (2020), 104581, 7. doi:.org/10.1016/j.archoralbio.2019.10458
	Knezović, Zlatka; Trgo, Marina; Sutlović, Davorka Monitoring mercury environment pollution through bioaccumulation in meconium // Process safety and environmental protection, 101 (2016), 2-8 doi:10.1016/j.psep.2016.01.013
	Sutlović, Davorka; Borić, Igor; Slišković, Livia; Popović, Marijana; Knezović, Zlatka; Nikolić, Ivana; Vučinović, Ana Bone mineral density of skeletal remains: Discordant results between chemical analysis and DXA method // Legal medicine, 20 (2016), 18-22 doi:10.1016/j.legalmed.2016.03.008
	Knezović, Zlatka; Trgo, Marina; Sutlović, Davorka Assessment of environmental pollution through accumulation of lead and cadmium in meconium samples // Fresenius environmental bulletin, 25 (2016), 12A; 5804-5811
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Course "Skills of medical education and scientific work", Faculty of Medicine in Split November 14 - 16, 2019
PRIZES AND AWARDS	
Prizes and awards for teaching and research	

Title, name and last name	Senior lecturer, Sonja Koren
Title of the course at the proposed	English for MLDI, II
study programme	
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	sonja.koren@ozs.unist.hr
Year of birth	1963
Scientist ID	
CROSBI profile ID	CROSBI ID: 1036027
Research rank and date of the last	Lecturer
appointment	2013
Research and teaching or teaching	
rank, and the date of the last	
appointment	
Area and field of appointment into	Area: humanities, field: philology, branch: English
research rank	
INFORMATION ON CURRENT EMPLOYM	ENT
Institution of employment	University Department of Health Studies
Date of employment	May, 2nd, 2013
Job title (professor, researcher,	Lecturer
associate teacher, etc.)	
Field of research	Humanities
Position in the institution	
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	MA in English language and literature and French language
	and literature
Institution	Faculty of Humanities and Social Sciences
Place	Zagreb
Date	1989
INFORMATION ON ADDITIONAL TRAINII	NG
Year	
Place	
Institution	
Field of training	1. International Scientific and Professional Conference -
	Contemporary Issues in Economy and Technology - CIET 2014, 19-
	21 June 2014, University Department of Professional Studies, Split,
	Croatia (Međunarodna znanstvena i stručna konferencija
	Contemporary Issues in Economy and Technology - CIET 2014, 19
	21. lipnja 2014., Sveučilišni odjel za stručne studije, Split, Hrvatska)
	2. Grammar Learning Strategies, prof.dr.sc. Miroslaw
	Pawlak, u organizaciji Zavoda za jezike, Sveučilišni odjel za stručne
	studije, Split, 7. studenog 2014.
	3. Teaching Grammar - A Practical Perspective, dr.sc. Anna Mustleaude Miastelale y assessing Stude to inside Cuavilitization
	Mystkowska-wiertelak, u organizaciji zavoda za jezike, sveucilisni
	Oujel za struche studije, Spilt, 7. studenog 2014.
	MA nredavanje i radionica u organizaciji Ureda za mohilpost i
	međunarodnu suradnju 8. svibnja 2015
	5 CIII (Content and Language Integrated Learning) in
	Portuguese Higher Education - an ongoing project drise Ana
	Goncalves, predavanje i radionica u organizaciji Ureda za
	mobilnost i međunarodnu suradniu. 8. svibnia 2015.
	6. Erasmus+, Introduction to Teaching English for Medical
	Purposes, 31. kolovoza 2015. – 4. rujna 2015., Ulm, Njemačka

	7. Workshop "Izrada i pretraživanje maloga specijaliziranoga
	jezičnoga korpusa" u organizaciji Udruge nastavnika jezika struke
	na visokoškolskim ustanovama, 16. veljače 2017.
	8. Webinar "Corpus-based Discourse Analysis". Corpus Research
	Centre Air University 26 studenog 2021
	9 IATEEL English for Snecific Purnoses Snecial Interest Group
	online event: ESPSIG: Analysis of learners' needs in the teacing of
	English for medical nurnoses 30 studenog 2021
MOTHER TONGLIE AND FOREIGN LANG	
Mother tongue	Croatian
Foreign language and command of	English 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	French /
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Farlier experience as course	English language for students of physiotherapy nursing
teacher of similar courses (title of	midwifery, radiologic technology, and medical laboratory
course study programme where it	diagnostics
is/was held, and level of study	
programme)	
Authorship of university textbooks	
from the field of the course	
Professional and research papers	1. Koren S. (2016). Conceptual Metaphors in Discourse on
published in the last five years from	Organ Donation, Journal of Foreign Language Teaching and Applied
the field of the course (max 5	Linguistics, Volume 3. – Number 3 – 2016, 163-171. ISSN: 2303-
references)	5528
	2. Duplančić Rogošić G. i Koren S. (2017). Exploring
	collocational competence of first-year university students as non-
	native speakers of English". Conference Proceedings II
	International Conference From Theory to Practice in Language for
	Specific Purposes, 23-37. ISSN:1849-9279
	3. Koren S. i Rogulj J. (2017). Kolokacijska kompetencija
	neizvornih korisnika engleskog jezika medicinske struke. Zbornik
	radova Veleučilišta u Šibeniku, 3-4/2017, 19-31. UDK 811.111:61
	(izvorni znanstveni članak) ISSN 1846-6699
	4. Janković S., Koren S., Sarić M., Orlandini R., Antičević V.,
	Svaljug D. i Ante Buljubašić A. (2018). The Croatian Model of
	University Education for Nurses. International Archives of Nursing
	and Health Care. ISSN: 2469-5823
Professional and research papers	1. Rogulj J. i Koren S. (2018). Od strukturalizma do
In methodology and quality of	suvremenog "kuks" (komunikacijsko-ucenje/usvajanje-
teaching published in the last five	kontrastivno-spoznajnoj pristupa u nastavi engleskoga jezika.
years (max 5 reterences)	ZDOTTIK TADOVA VEIEUCIIISTA U SIDENIKU, 3-4/2018,143-159. UDK
	3/1.3:011.111 (pregleani rad) ISSN 1846-6699
	2. Roguij J. i Koren S. (2017). Analiza Siucaja: Disieksija i diografija u postavi opglaskoga jazika. Vesnitanja i obrazavanja
	ALII, 5-4, 24/-20/, UDA 5/1.5.011.1111.010.83-008.434.5
	pregreuii isu azivatki rau) 2. – Duplančić Rogošić G. i Koren S. (2019). Posoarching
	Diagiarism in Higher Education - Case of Eirst Veer Students at
	Fiagiansin in figher Euroation – Case of First-Year Students at

	Selected HEIs. Conference Proceedings Contemporary Issues in Economy & Technology 2018.
Professional and research projects	UNIOS ZUP-2018-77, Figurative language in Health
from the field of the course carried	Communication
out in the last five years (max 5	
references)	
Within which program and to what	Graduated from the Faculty of Humanities and Social
extent did the course teacher acquire	Sciences, teacher education
methodological, psychological,	
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and surname	Associate professor Željko Kovačević
The coursehe teaches in the	Physcial training I and II
proposed study program	
GENERAL INFORMATION ABOUT THE H	OLDER
E-mail address	zkovacev@oozs.unist.hr
Year of birth	1963.
Registration number from the	378662
register of scientists	
The number of the person''s crosby	CROSBI ID: 959
profile	
Scientific or artistic title and date of	
last selection	
Scientific-teaching, artistic-teaching	Associate professor, 2022
or teaching title and date of last	
selection	
Area and field of choice for a	Kinesiology
scientific or artistic title	
Data on current employment	
Constitution of employment	University Department of Health Studies
Date of employment	May 5, 2011.
Job title (professor, researcher,	professor
associate, etc.)	
Work area	
Function	Lecturer
EDUCATION DATA- Highest degree arch	ieved
Title	Doctor of kineziology
Institution	Faculty of Physical Education
Place	Bania Luka. Bosnia and Herzegovina
Date	
TRAINING DATA	
Year	
Place	
Institution	
Area of training	
NATIVE AND FOREIGN LANGUAGES	
Native languages	Croatian
Foreign language and language skills	English 2
on scale from 2 (sufficient) to 5 (
excellent)	
Foreign language and language skills	
on scale from 2 (sufficient) to 5 (
excellent)	
Foreign language and language skills	
on scale from 2 (sufficient) to 5 (
excellent)	
SUBJECT COMPETENCIES	
Previous experience in conducting	Physical education and sports, Faculty of Medicine in Split
similar courses (state the nameo f the	,
course, the study program in which it	
is performed – performed and the	
level of the study program	
Authorship of university – faculty	
textbooks in the field of subjects	

Professional, scientific and artistic works published in the last fiv years in the field of the subject (maximum 5 references)	 Diferences in psvchological charactereistics betwen diferent active female students Internaciona IScientific Journal of Kineziologiy June 2015. god. Kovačević.Ž., Štefan.,L, Sporiš.,G.,Čular.,D. Šamija.K Metric Characteristics Of Tests Assessing Speed and Agiliti in Youth Soccer Players., Sport Mont 2018.god. Kovačević.,Ž. Žuvela.,Kuvačić.,G. Differences in the specific fitness abilities of younger football players, Faculty of Kinesiology,Zagreb 2020.god. Kovačević.,Ž, Duje Poljak., Čavala Marijana;,Nenad Rogulj. Recreational kinesiological enegagement and self- respect in students of diferent ages. Opatija 2021. Jelić.,Kovačević.,Ž. Rogulj.,N. Čavala.,M. Đuzel.,J.
Professional and scientific papers on	
methodology and quality of teaching	
published in the last five years (
Professional scientific and artistic	
projects in the field of subjects that	
have been implemented in the last	
five years (maxiumum 5 references))	
Within which program and to what	
extent did the holder acquire	
methodological-psychological-	
didactic-pedagogical competencies?	
RECOGNITIONS AND AWARDS	
Recognitions and awards for teaching	University of Split, University Department of Health
and research work-artistic work	Studies Acknowledgments for the overall work of the Department
	over the past ten years, especially for the results achieved by
	students and the development of the university sports at the
	University Department

Title, name and last name	Asocc. Prof. dr. sc. Slavica Kozina, psychologist
Title of the course at the proposed	Health Care Psychology
study programme	
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	slavica.kozina@mefst.hr
Year of birth	1966.
Scientist ID	MB: 276745
CROSBI profile ID	26344
Research rank and date of the last	Senior Research Associate, 01. 07. 2020.
appointment	
Research and teaching or teaching	Asocciate professor, 23. 07. 2020.
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and healthcare, public health and health care,
research rank	public health
INFORMATION ON CURRENT EMPLOYN	1ENT
Institution of employment	School of Medicine, University of Split
Date of employment	1998.
Job title (professor, researcher,	Professor
associate teacher, etc.)	
Field of research	Medical psychology, psychological trauma
Position in the institution	Professor
INFORMATION ON EDUCATION – Highe	est degree achieved
Degree	Ph. D.
Institution	School of Medicine, University of Zagreb
Place	Zagreb
Date	2011.
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2002/2003
Place	Usio, Norwey
Institution	Development of Development and States for Deferred
	Medical School University of Oslo
Field of training	War trauma
Mother tongue	Croatian
Foreign language and command of	English language $(C + \frac{3}{4})$
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	German language (3)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Undergraduate studies in nursing and physical therapy:
foreign language on a scale from 2	Communication skills; Health psychology; Developmental
(sufficient) to 5 (excellent)	Psychology.
COMPETENCES FOR THE COURSE	
Earlier experience as course	
teacher of similar courses (title of	
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	Urlić I, Jurčević S. <i>Psychological aspects of diving medicine</i> (in
from the field of the course	Croat) Psihološki aspekti medicine ronjenja. U: Petri NM, Andrić D.

	Odabrana poglavlja iz medicine ronjenja: materijali za pohađanje
	tečaja poslijediplomskog usavršavanja iz medicine ronjenja za
	liječnike. Split: Hrvatski liječnički zbor, Hrvatsko društvo za
	podvodnu i hiperbaričku medicinu, Institut pomorske medicine
	HRM, Medicinski fakultet Sveučilišta u Splitu, 2001:70-75.
	Jurčević S. <i>Psychology of pain</i> . (In Croat) Psihologija boli. U: Jukić M,
	Sapunar D. Kronična bol-dijagnostički postupak i liječenje.
	Poslijediplomski tečaj stalnog usavršavanja liječnika (Tečaj I
	kategorije). Split: Medicinski fakultet u Splitu, 2006:68-71.
	Jurčević S. Psychological components of pain. (In Croat) Psihološke
	odrednice boli. U: Jukić M. Liječenje kronične boli. Poslijediplomski
	tečaj stalnog usavršavanja liječnika (Tečaj I kategorije). Split:
	Ambulanta za liječenje boli. Odjel za anesteziju i intenzivno liječenje
	KBC Split, Hrvatsko društvo za liječenje boli - Hrvatski liječnički zbor,
	Hrvatska liječnička komora, 2008:68-71.
Professional and research papers	1. Kozina S, Kowalski M, Vlastelica M, Mastelic T,
published in the last five years from	Borovac JA. Traumatic memory of one's son gone missing
references)	In war: content analysis using Krippendorff's alpha. SAGE Open (January-March) 2019:1-9. Doi:
	10.1177/2158244019839627
	 Kozina S, Vlastelica M, Borovac JA, Mastelic T, Marković D, Lončar M. Violence without a face: The Analysis of
	Testimonies of Women who were seually assaulted during
	the war in Croatia and Bosnia and Herzegovina. Psychiatria Danubina. 2018:Vol. (accepted 22.11.2018)
	3. Lončar, M; Dijanić Plašć, I; Bunjevac, T; Hrabač, P; Jakšić, N;
	Kozina, S; Henigsberg, N; Šegud, M; Marčinko, D. Predicting Symptom Clusters of posttraumatic Stress Disorder (PTSD)
	in Croatian War Veterans: The Role of Socio-demohraphis,
	War Experiences and Subjective Quality of Life. Psychiatria
	4. Jukic M, Kvolik S, Kardum G, Kozina S, Tomic Juraga A.
	Knowlwdge and Practices of Obtaining Informed Consent or
	Questionnaire Study in 6 Croatian Hospitals. Croat Med J
	2009;50:567-74
	 Jurcevic S, Allen J, Dahl S. Gender Differences in War- Related Disappearance: Croatian Experiences. Military
	Medicine 2007;172(4):370-375.
Professional and research papers	1 Jurgania Kasina C. Maliaki M. Drafassiana Lashianana ata in
In methodology and quality of	Jurcevic Kozina S, Malicki M. Professional achievements in medicine: Too many unresolved questions. Acta Medica
years (max 5 references)	Academica 2012;41(1):8-25
	2.
	3. Jukic M, Kozina S, Kardum G, Hogg R, Kvolik S. Physicians
	overstimate parient knowledge of the process of informed consent. A cross-sectional study. Med Glas Liek komore
	Zenicko-doboj kantona 2011;8(1):39-45

	 Vilovic K, Jurcevic S, Ivanisevic R, Sapunar D. Clinical skills teaching – Survey at medical school in Split and Zagreb. Medicina 2006;42:26-30.
	 Vlastelica M, Jurčević S. Specifičnosti žalovanja majki čiji su sinovi nestali i/ili su posmrtno identificirani. Soc.psihijat 2008;36:29-32.
	 Kozina, S; Vlastelica M. Disocijacija i detachment kao odraz traumatskog događaja na aspekte sebstva. Soc. psihijat. 2014; 42:33 – 42.
Professional and research projects	Impact of the scientific journals on the Croatian medical
from the field of the course carried	community" (principal investigator Prof. Dr. Sc. Matko Marušić)
out in the last five years (max 5	Project Code: 216-1080314-0245
references)	Project duration: 2016
Within which program and to what	1. Completed graduate study of psychology (professor of
extent did the course teacher acquire	psychology), subjects: Pedagogical Psychology, Developmental
methodological, psychological,	Psychology 1 and 2, Didactics and Pedagogy
didactic and pedagogical	
competencies?	2. Completed postgraduate professional studies in "Psychotherapy"
PRIZES AND AWARDS	
Prizes and awards for teaching and	Croatian Psychological Society Award "Ramiro Bujas"
research	

Title of the course at the proposed study programme Basics of Management in Health Care E-mail address dkruzic@efst.hr Year of birth 1954, 1954, 20710 Research rank and date of the last appointment Scientific advisor - tenure Research rank and date of the last appointment Scientific advisor - tenure, 24.5.2018, rank, and the date of the last appointment Area and field of appointment into research rank Social sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Dital professor tenure, 24.5.2018, rank, and the fuel sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Date of employment Ol.03.2003, Dob title (professor, researcher, Professor at the Department of management, associate teacher, etc.) Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INNORMATION ON ADDITIONAL TRAINING Year Year Plac Institution Faculty of Economics, Business and Tourism Split Place Split Date 1933. INFORMATION ON ADDITIONAL TRAINING Year Place Foreign language and command of foreign l	Title, name and last name	Dejan Kružić, PhD Full professor tenure	
Thild of the Course is the proportion Dates of Humagement (In Tream Cate) GENERAL INFORMATION ON COURSE LEADER Email address E-mail address dkruzic@efst.hr Year of birth 1954. Scientifis ID 92243 CROSBI profile ID 20710 Research and and teaching or teaching rank, and the date of the last appointment Scientific advisor - tenure appointment Area and field of appointment into research rank Social sciences, Field of Economy, branch Economics of Entrepreneurship Instruction of employment Faculty of Economics, Business and Tourism Split Date of employment Of 0.32.003 Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INFORMATION ON ADDITIONAL TRAINING Year Place Split Date Of training Institution English (3) Oroing language and command of foreign language on ascale from 2 (sufficient) to 5 (excellent) Commedian and command of foreign language and command of foreign l	Title of the course at the proposed	Basics of Management in Health Care	
Final programme Enservert GENERAL INFORMATION ON COURSE LEADER E-mail address (dkruzic@efst.hr Year of birth 1954. Scientist ID 92243 CROSBI profile ID 20710 Research rank and date of the last scientific advisor - tenure appointment Full professor tenure, 24.5.2018. Area and field of appointment into Social sciences, Field of Economy, branch Economics of Research and Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment Faculty of Economics, Business and Tourism Split Date of employment 0.10.3.2003. Dob tille (professor, researcher, Professor at the Department of management, entrepreneurship Position in the institution Full professor tenure NRORMATION ON EDUCATION – Highest degree achieved Degree Degree Ph0 Institution Faculty of Economics, Business and Tourism Split Place Split Place Split Obate 1983. INFORMATION ON ADDITIONAL TRAINING Year	study programme		
Exemail address dkruzic@efst.hr Year of birth 1954. Scientist ID 92243. CROSBI profile ID 20710 Research rank and date of the last appointment Scientist ID Research and teaching or teaching rank, and the date of the last appointment Full professor tenure, 24.5.2018. Area and field of appointment into research rank Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Institution of employment Faculty of Economics, Business and Tourism Split Date of employment 0.103.2003. Job tille (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Field of research Crisis managemient, Entrepreneurship Postion in the institution Faulty of Economics, Business and Tourism Split Date Thigh professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Pho Institution Faulty of Economics, Business and Tourism Split Place Split Date 1933. INFORMATION ON ADDITIONAL TRAINING Year Entrepreneurship, Family business; Foreign langu	GENERAL INFORMATION ON COURSE I		
Entroducted Dist. Vear of birth 1954. Scientist ID 92243 CROS8I profile ID 20710 Research rank and date of the last appointment Scientific advisor - tenure Research and teaching or teaching rank, and the date of the last appointment Full professor tenure, 24.5.2018. Area and field of appointment into research rank Social sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Faculty of Economics, Business and Tourism Split Date of employment Faculty of Economics, Business and Tourism Split Date of employment Datiot (professor, researcher, essociate teacher, etc.) Professor at the Department of management associate teacher, etc.) INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date Split Date Date Split Split Split Place Split Split Split Field of training Croatian English (3) Sprit aubage and command of foreign language and command of for	E-mail address	dkruzic@efct.hr	
Test Out un 1974. Scientist ID 92243 CROSBI profile ID 20710 Research rank and date of the last appointment Scientific advisor - tenure Research rank and the date of the last appointment Scientific advisor - tenure, 24.5.2018. Area and field of appointment linto research rank Entrepreneurship INFORMATION ON CURRENT FEME/OWENT Institution of employment Date of employment 01.03.2003. Job tille (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Field of research Crisis management, Entrepreneurship Position in the institution Fuelly of Economics, Business and Tourism Split Place PhD Institution of Acculty of Economics, Business and Tourism Split Pilace Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Year Croatian Foreign language and command of foreign language and command	Vear of hirth	1054	
JUENTS ID JUENTS CROSBI profile ID 20710 Research rank and date of the last appointment Scientific advisor - tenure appointment Area and field of appointment into research rank and the date of the last appointment Full professor tenure, 24.5.2018. Area and field of appointment into research rank and the date of the last appointment Social sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Faculty of Economics, Business and Tourism Split Date of employment 01.03.2003. Polstion in the institution Full professor tenure Pield of research Crisis management, Entrepreneurship Professor tenure Position in the institution Faculty of Economics, Business and Tourism Split Pagree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Croatian Foreign language on a scale from 2 English (3) Gordign on ascale from 2 Crisis management; Entrepreneurship; Family business; Earlier experience as course Crisis management; Entrepreneurship; family busines;	Scientist ID	02242	
LinUsid plutine 20110 Research rank and date of the last appointment Scientific advisor - tenure Research rank and the date of the last appointment Full professor tenure, 24.5.2018. Area and field of appointment into research rank Social sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Social sciences, Field of Economics, Business and Tourism Split Date of employment 01.03.2003. Job tille (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Field of research Crisis management, Entrepreneurship Postion in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Degree Ph0 Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983 INFORMATION ON ADDITIONAL TRAINING Year Place English (3) Foreign language and command of foreign		20710	
Research and teaching or teaching rank, and teaching or teaching rank of employment Full professor tenure, 24.5.2018. INFORMATION ON CURRENT EMPLOYMENT Entrepreneurship Institution of employment Faculty of Economics, Business and Tourism Split Date of employment Full professor tenuce INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1993. INFORMATION ON ADDITIONAL TRAINING Year Place Field of fraging Field of foreign language on a scale from 2 (sufficient) to 5 (excellent) Croatian Converse, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate university and professional study OMOTHER TONGUE AND FOREIGN LANGUAGES Crisis management; Entrepreneurship; Family business; Entrepreneur	Research rank and date of the last	20/10 Scientific advicer tenuro	
Research and teaching or teaching rank, and the date of the last appointment Full professor tenure, 24.5.2018. Area and field of appointment into research rank Social sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Faculty of Economics, Business and Tourism Split Date of employment O1.03.2003. Professor at the Department of management Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management Field of research Crisis management, Entrepreneurship Position in the institution Faculty of Economics, Business and Tourism Split INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training Croatian Foreign language on a scale from 2 English (3) foreign language on a scale from 2 Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate and graduate university studies; <td>appointment</td> <td></td>	appointment		
rank, and the date of the last appointment Area and field of appointment into research rank INFORMATION ON CURRENT EMPLOYMENT Institution of employment Paculty of Economics, Business and Tourism Split Date of employment Field of research Field of research Crisis management, Entrepreneurship Position in the institution INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Field of training NOTHER TONSUE AND FOREIGN LANGUAGES Mother tongue Foreign language and command of foreign language and command of foreign language and scale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as ourse teacher of similar courses (stufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as ourse teacher of similar courses (stufficient) to 5 (excellent) Foreign language and acale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as ourse teacher of similar courses (stufficient) to 5 (excellent) Foreign language and acale from 2 (sufficient) to 5 (excellent) COMPETENCES FOR THE COURSE Earlier experience as ourse teacher of similar courses (trais management; Entrepreneurship; Family business; Earlier experience as ourse teacher of similar courses (title of course, study programme where it is furbation to 5 (excellent) Crisis management; Entrepreneurship; Family business; Earlier experience as acurse teacher of similar courses (title of course, study programme where it is furbation for the course Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the the Internetional OFEI Conference on Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the the Internetional OFEI Conference on	Research and teaching or teaching	Full professor tenure, 24.5.2018.	
appointment Area and field of appointment into Social sciences, Field of Economy, branch Economics of research rank INFORMATION ON CURRENT EMPLOYMENT Institution of employment 0.03.2003. Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management, associate teacher, etc.) Field of research Crisis management, Entrepreneurship Postiton in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training Croatian Mother tongue Croatian Foreign language and command of foreign language and cole from 2 Ensish (3) foreign language and command of foreign language and cole from 2 Crisis management; Entrepreneurship; Family business; Entrepreneurship; Family business; Entrepreneurship; Family business; Entrepreneurship; Family business; Entrepreneurship rojects; Postgraduate university and professional study foreign language and command of foreign language and cole from 2 Crisis	rank, and the date of the last		
Area and field of appointment into research rank Social sciences, Field of Economy, branch Economics of Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Faculty of Economics, Business and Tourism Split Date of employment 01.03.2003. Professor, researcher, associate teacher, etc.) Professor at the Department of management Field of research Crisis management, Entrepreneurship Professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Place Split Place Place Place Split Place Place Place Croatian Foreign language and command of foreign language on a scale from 2 Foreign language on a scale from 2 MOTHER TONGUE AND FOREIGN LANGUAGES Constan Foreign language and command of foreign language on a scale from 2 COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar course (title of course, study programme where it is/was held, and level of study programme) Crusi: management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate university and professional study Professional and research papers Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakul	appointment		
research rank Entrepreneurship INFORMATION ON CURRENT EMPLOYMENT Institution of employment Date of employment 01.03.2003. Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1993. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training Croatian Foreign language and command of foreign language and scale from 2 Crisis management;	Area and field of appointment into	Social sciences, Field of Economy, branch Economics of	
INFORMATION ON CURRENT EMPLOYMENT Institution of employment 01.03.2003. Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Institution Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) COMPETENCES FOR THE COURSE Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university and professional study Programme) Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D. : Poduzetništvo - realnost sadašnjosti i izazov budućnosti, RRif, Zagreb, 2006. Professional and research papers Kružić, D. : Voduzetništvo - realn	research rank	Entrepreneurship	
Institution of employment Faculty of Economics, Business and Tourism Split Date of employment 01.03.2003. Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training English (3) MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Foreign language and command of foreign	INFORMATION ON CURRENT EMPLOYM		
Date of employment 01.03.2003. Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management, associate teacher, etc.) Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Croatian Field of training English (3) MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Foreign language and command of foreign language and acale from 2 (sufficient) to 5 (excellent) English (3) Foreign language and scale from 2 (sufficient) to 5 (excellent) Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate and graduate university studies; Undergraduate and graduate university studies; Postgraduate and graduate university studies; Postgraduate and graduate university studies; Postgraduate and graduate university and professional study rorgamme) Kružić, D. (rv.), Obiteljsko poduzetništvo - realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006. Professional and research papers	Institution of employment	Faculty of Economics, Business and Tourism Split	
Job title (professor, researcher, associate teacher, etc.) Professor at the Department of management associate teacher, etc.) Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training Croatian Foreign language and command of foreign language and a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language and scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Entrepreneurship: Family business; Entrepreneurship: Public-private partnership projects; Postgraduate university studies; Undergraduate university and professional study programme) Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Puble, M., Kružić, D. Ivô, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies of the 7th International OFEI Conference on	Date of employment	01.03.2003.	
associate teacher, etc.) Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training Croatian MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Mother tongue Croatian Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course Earlier experience as course Crisis management; Entrepreneurship; Family business; Earlier experience as course Crisis management; Entrepreneurship, Family business; Earlier experience as course Crisis management; Entrepreneurship; Family business; Earlier experience as course Entrepreneurial planning; Public-private partnership projects; Postgraduate university and professional study programme)	Job title (professor, researcher,	Professor at the Department of management	
Field of research Crisis management, Entrepreneurship Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training Creatian MOTHER TONGUE AND FOREIGN LANGUAGES MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Creatian Foreign language and command of foreign language and command of foreign language and scale from 2 (sufficient) to 5 (excellent) Italian (2) Foreign Splanguage and command of course, study programme where it is/was held, and level of study programme where it is/was held, and level of study programme of subary programme of the field of the course Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study programme) Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedinose of the	associate teacher, etc.)		
Position in the institution Full professor tenure INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Place Contained Place Institution Place Institution Place Contained Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Entire resperience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate and graduate university studies; Undergraduate and graduate and graduate; Undergraduate; Undergraduate university of Loonomski fakultet Authorship of university textbooks from the fiel	Field of research	Crisis management, Entrepreneurship	
INFORMATION ON EDUCATION – Highest degree achieved Degree PhD Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Institution Context Place English Institution English (3) Field of training Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; iu/ducer aduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRIF, Zagreb, 2006. Professional and research papers Professional and	Position in the institution	Full professor tenure	
Degree PhD Institution Faculty of Economics, Bušiness and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Place Vear Place Place Institution Field of training Croatian MOTHER TONGUE AND FOREIGN LANGUAGES Croatian Foreign language and command of foreign language on a scale from 2 English (3) foreign language on a scale from 2 Italian (2) Competence is source Crisis management; Entrepreneurship; Family business; Earlier experience as course Crisis management; Entrepreneurship; Family business; Competences of similar courses (title of course, study programme where it is/was held, and level of study programme where it is/was held, and level of study programme where it is/was held of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D. Wit, M., Cudrić, L: Corporate Social Responsibility as a Reputation Media Industry. Proceedings of the 7th International OFEI Conference on	INFORMATION ON EDUCATION – Highe	st degree achieved	
Institution Faculty of Economics, Business and Tourism Split Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Institution Year Institution Place Institution Field of training Croatian MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Crisis management; Entrepreneurship; Family business; Entrepreneurship ropjects; Postgraduate and graduate university studies; Undergraduate university and professional study programme) Undergraduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko paduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D. : Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRIF, Zagreb, 2006. Professional and research papers	Degree	PhD	
Place Split Date 1983. INFORMATION ON ADDITIONAL TRAINING Year Place Institution Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 Italian (2) COMPETENCES FOR THE COURSE Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneuriship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obitel/sko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006. Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reputation Mechanism for the Comparate Social Responsibility as a Reput	Institution	Faculty of Economics, Business and Tourism Split	
Date 1983 INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university studies; Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Professional and research papers Kružić, D., Vić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OEEI Conference on	Place	Split	
INFORMATION ON ADDITIONAL TRAINING Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Crisis management; Entrepreneurship; Family business; Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), <i>Obiteljsko poduzetništvo</i> , Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OFEI Conference on	Date	1983.	
Year Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Crisis management; Entrepreneurship; Family business; teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D., Ivé, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OFEI Conference on	INFORMATION ON ADDITIONAL TRAINI	NG	
Place Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Crisis management; Entrepreneurship; Family business; teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Professional and research papers Kružić, D. : Vic, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OFEI Conference on	Year		
Institution Field of training MOTHER TONGUE AND FOREIGN LANGUAGES Mother tongue Croatian Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent) English (3) Foreign language on a scale from 2 (sufficient) to 5 (excellent) Italian (2) COMPETENCES FOR THE COURSE Entrepreneurship; Family business; Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme) Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OEEI Conference on	Place		
Field of trainingMOTHER TONGUE AND FOREIGN LANGUAGESMother tongueCroatianForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)English (3)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)Foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSECrisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Indrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OFEI Conference on	Institution		
MOTHER TONGUE AND FOREIGN LANGUAGESMother tongueCroatianForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)English (3)Foreign language and command of foreign language and command of foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSECrisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEI Conference on	Field of training		
Mother tongueCroatianForeign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)English (3)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSECrisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study programme)Authorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	MOTHER TONGUE AND FOREIGN LANG	UAGES	
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)English (3)Foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSECrisis management; Entrepreneurship; Family business; Earlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEI Conference on	Mother tongue	Croatian	
foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSEEarlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	Foreign language and command of	English (3)	
(sufficient) to 5 (excellent)Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSECrisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional study programme)Authorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OFEL Conference on	foreign language on a scale from 2		
Foreign language and command of foreign language on a scale from 2 (sufficient) to 5 (excellent)Italian (2)COMPETENCES FOR THE COURSEEarlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEI Conference on	(sufficient) to 5 (excellent)		
foreign language on a scale from 2 (sufficient) to 5 (excellent)COMPETENCES FOR THE COURSEEarlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEI Conference on	Foreign language and command of	Italian (2)	
(sufficient) to 5 (excellent)COMPETENCES FOR THE COURSEEarlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	toreign language on a scale from 2		
COMPETENCES FOR THE COURSEEarlier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	(sufficient) to 5 (excellent)		
Lariier experience as course teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Crisis management; Entrepreneurship; Family business; Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Professional and research papersKružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	COMPETENCES FOR THE COURSE		
teacher of similar courses (title of course, study programme where it is/was held, and level of study programme)Entrepreneurial planning; Public-private partnership projects; Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006.Kružić, D. (ur.), Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	Earlier experience as course	Crisis management; Entrepreneurship; Family business;	
Course, study programme where it is/was held, and level of study programme)Postgraduate and graduate university studies; Undergraduate university and professional studyAuthorship of university textbooks from the field of the courseKružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006.Buble, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	teacher of similar courses (title of	Entrepreneurial planning; Public-private partnership projects;	
Is/was held, and level of study Ondergraduate university and professional study programme) Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	course, study programme where it	Postgraduate and graduate university studies;	
Authorship of university textbooks from the field of the course Kružić, D. (ur.), Obiteljsko poduzetništvo, Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006. Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	nogramma)	ondergraduate university and professional study	
Autoriship of university textbooks Ruzic, D. (ur.), Obiteljsko poduzetnistvo, Ekonomiski fakultet from the field of the course Mostar i Ekonomski fakultet Split, 2016. Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006. Buble, M., Kružić, D.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	Authorship of university toythooks	Kružić D. (ur.). Obitalicka naduzatničtva. Ekonomski fakultat	
Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	from the field of the course	Mostar i Ekonomski fakultet Split 2016	
Buble, M., Kružić, D.: Poduzetništvo – realnost sadašnjosti i izazov budućnosti, RRiF, Zagreb, 2006. Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry. Proceedings of the 7th International OFEL Conference on		19103tal 1 Ekonomiski lakultet spilt, 2010.	
Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on		Buble M. Kružić D.: Poduzetništvo – realnost sadašniosti i izazov	
Professional and research papers Kružić, D., Ivić, M., Cindrić, I.: Corporate Social Responsibility as a Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on		budućnosti. RRiF. Zagreb. 2006	
Reputation Mechanism for the Companies Operating in Media Industry, Proceedings of the 7th International OFEL Conference on	Professional and research papers	Kružić, D., Ivić, M., Cindrić, J.: Cornorate Social Responsibility as a	
Industry, Proceedings of the 7th International OFEL Conference on		Reputation Mechanism for the Companies Operating in Media	
		Industry, Proceedings of the 7th International OFEL Conference on	

published in the last five years from the field of the course (max 5 references)	Governance, Management and Entrepreneurship: Embracing Diversity in Organisations, Zagreb, 2019. Škokić, V., Kružić, D., <i>Knowledge creation and the need for new</i> <i>research directions in entrepreneurship studies</i> , Management Education and Research in the Upcoming Epoch: Rethinking Discipline and Reconceptualization Modes of Creating Knowledge (Tipurić, D., Aleksić, A., ur.). Ekonomski fakultet Zagreb, Zagreb, 2017. Bulog, I., Jukić, I., Kružić, D., Managerial Skills: Does Family <i>Ownership Make a Difference</i> ? Proceedings of the 5th International OFEL Conference on Governance, Management and Entrepreneurship: The Paradoxes of Leadership and Governance in the Postmodern Societx, Tipurić, D., Galetić, F. (ur.), CIRU, Zagreb, 2017. Kružić, D. (ur.), <i>Obiteljsko poduzetništvo</i> , Ekonomski fakultet Mostar i Ekonomski fakultet Split, 2016.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	
PRIZES AND AWARDS	
PRIZES AND AWARDS Prizes and awards for teaching and research	 Medal of the City of Split (2003) for outstanding contribution to local development management and for an overall scientific and professional activities. Award of the Faculty of Economics in Split for the book <i>Family Business</i> (2004). Recognition of the Faculty of Economics in Split for valuable scientific work - for co-authorship of the book <i>Influence of organizational variables on the success of business process improvement programs</i> (2010). Recognition of the Faculty of Economics in Split for valuable scientific work - the book <i>Family Businesse - Life Cycles, Inheritance and Sustainability</i> (2012). Recognition of the Faculty of Economics in Split for valuable scientific work - for co-authorship of the book <i>Possibilities of Restructuring Aluminij d.d. Mostar</i> (2013). Award of the Faculty of Economics in Split for valuable scientific work - for co-authorship of the book <i>Possibilities of Restructuring Aluminij d.d. Mostar</i> (2013).

Title of the course at the proposed Biology	
Biolog)	
study programme Biochemistry II	
Cell biology with the basics of genetics	
Instrumental techniques in MLD	
Molecular Biology Techniques in Medicine	
GENERAL INFORMATION ON COURSE LEADER	
E-mail address sendikuret@ozs.unist.hr	
Year of birth 1971.	
Scientist ID 279142	
CROSBI profile ID 22887	
Research rank and date of the last	
appointment	
Research and teaching or teaching Assistant Professor, 2020	
rank, and the date of the last	
appointment	
Area and field of appointment into Biomedicine and health, field of basic medical science, genetics	
Institution of employment	
Date of employment April 20 2021	
Lob title (professor, researcher Assistant Professor	
associate teacher, etc.)	
Field of research Medical-laboratory diagnostics	
Position in the institution	
INFORMATION ON EDUCATION – Highest degree achieved	
Degree Doctor of Science (PhD)	
Institution Faculty of Science, University of Zagreb	
Place Zagreb	
Date 2011.	
INFORMATION ON ADDITIONAL TRAINING	
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN LANGUAGES	
Mother tongue Croatian	
Foreign language and command of English – (4)	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	
teacher of similar courses (title of	
course, study programme where it	
is/was held, and level of study	
programme)	
Authorship of University textbooks	
Professional and recearch papers 1 Sutlević D. Kurst C. Definie M. New neuch section and ele	
nublished in the last five years from a substances in pooled uring samples collected at the Ultra Eur	15510
the field of the course (may 5) [festival in Solit Croatia. Arbiv za higijenu rada i toksikologiju 20	0pe 021
references) 72 (3): 198-204	021,
2. Sutlović D. Kliučević Ž. Kuret S. ABCB1. CYP2B6. and CYP	3A4
genetic polymorphisms do not affect methadone maintena	ance

	treatment in HCV-positive patients. Arh Hig Rada Toksikol. 2020, 71 (4): 353-358. 3. Bezić J. Kuret S. Vrbičić B. Smolić J. Borić I. Škifić I. Ledina D.
	Božić J. Clinicopathological Characteristics of BRAF V600E Mutated
	Dermatovenerol Croat. 2019, 27(4):225-230.
	4. Piljić Burazer M, Mladinov S, Matana A, Kuret S, Bezić J, Glavina Durdov M, Low EBCC1 expression is a good predictive
	marker in lung adenocarcinoma patients receiving chemotherapy
	based on rend sin n all TNM stages – a single-center study. Diagnostic Pathology 2019: 14:14(1):105
	5. Vince A, Židovec Lepej S, Bingulac-Popović J, Miletić M,
	Kuret S, Sardelić S, Baća Vrakela I, Kurelac I. Distribution of hepatitis C virus genotypes and subtypes in Croatia: 2008-2015. Central
	European Journal of Public Health 2018; 26(3): 159-63.
Professional and research papers	
teaching published in the last five	
years (max 5 references)	
Professional and research projects	1. Project collaborator - "Effect of cannabinoids on inflammatory
out in the last five years (max 5	source of funding, principal investigator, full professor Želiko Dujić,
references)	Faculty of Medicine, University of Split
	2. Project collaborator of the scientific research project of the
	Government of the Republic of Croatia "Monitoring of intoxication
	(2018) Leader prof.dr.sc. Davorka Sutlović
Within which program and to what	
extent did the course teacher acquire	
didactic and pedagogical	
competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	
research	

Title, name and last name	Mihajlo Lojpur, M.D., Ph.D.
Title of the course at the proposed	Emergencies in medicine
study programme	
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	mihajlo.lojpur@gmail.com
Year of birth	1958.
Scientist ID	345900
CROSBI profile ID	32509
Research rank and date of the last	/
appointment	
Research and teaching or teaching	Assistant Professor, July 1, 2014
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Clinical Medical Sciences
research rank	
INFORMATION ON CURRENT EMPLOYN	ENT
Institution of employment	School of medicine, University of Split / University hospital Split
	Department of anesthesiology and intensive care
Date of employment	In University hospital Split from February 13, 1992.
Job title (professor, researcher,	Spec. anesthesiologist, subspecialist in intensive care medicine /
associate teacher, etc.)	research associate
Field of research	Anestnesiology, resuscitation and intensive care
Position in the institution	Head of the Department of Anesthesiology, Clinic of
	Anestnesiology, Resuscitation and Intensive Care / lecturer
Degree	
Degree	M.D., PII.D.
Risco	School of medicine, oniversity of Spirt
Data	Spiit Bestgraduate destaral study completed on April 5, 2012
Voar	2000 2002 2007 2008
Place	2000., 20032007., 2008.
	Njeka, Zagreb, Kome
Field of training	Cardioanesthesia and intensive care of cardiac surgery patients
	Echocardiography (EACTA Echo/08)
MOTHER TONGLIE AND FOREIGN LANG	
Mother tongue	Croatian
Foreign language and command of	
foreign language on a scale from 2	English, 4
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	German, 2
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Resuscitation and emergency medicine courses of the Croatian
teacher of similar courses (title of	Medical Association since 1996. and the European
course, study programme where it	Resuscitation Council (ERC) since 2002.
is/was held, and level of study	• Co-organizer and lecturer in the Postgraduate Courses in
programme)	Anesthesiology, Resuscitation and Intensive Care under the
	auspices of the Council of the European Community and the
	aegis of the Foundation for European Education in
	Anesthesiology (FEEA), from 2002. to 2010.

Authorship of university textbooks from the field of the course	 Co-organizer and lecturer in Fundamental Critical Care Support Course Society of Critical Care Medicine, Split, Croatia, 2004. – 2009. Lecturer at the courses of Croatian Society of Anesthesiology, Reanimatology and Intensive Care Medicine of the Croatian Medical Association and the Committee for European Education in Anesthesiology (CEEA) from 2018 Head of the Department of First Aid, at the Faculty of Medicine in Split, from 2007 to 2010. (graduate study) Coautor of Basic Clinical skills. In: Simunovic VJ: Catalogue of Clinical Skills. Seattle: CreateSpace Independent Publishing Platform; 2013. ISBN - 10: 1489580212. Autor of BLS. In: Simunović VJ: Basic and General Clinical Skills. Seattle: CreateSpace Independent Publishing Platform; 2013. ISBN - 10: 1489556648 Autor of ALS. In: Simunović VJ: Basic and General Clinical Skills. Seattle: CreateSpace Independent Publishing Platform; 2013. ISBN - 10: 1489556648 Autor of chapeter Resuscitation In: Šimurina, T, Mraović, B. General clinical anesthesiology and resuscitation. Zadar, Department of Health Studies, University of Zadar, 2020
Professional and research papers published in the last five years from the field of the course (max 5 references)	 Anic, Ante; Breskovic, Toni; Jurisic, Zrinka; Borovina, Ante Lojpur, Mihajlo Kocen, Dubravka; Nenadic, Denis; Bulat, Cristian; Vukovic, Ivica; Duplancic, Darko. Percutaneous epicardial approach for ablation of ventricular tachycardia in patients with structural heart disease - a review of a series of patients from the Clinical Hospital Center Split. Cardiologia Croatica. 13 (2018), 11-12; 318-318 doi: 10.15836 / ccar2018.318
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	 Medical School Split, Integrated Learning in Medicine, (Intel- M "Train the Trainee Seminar"), Split, Croatia, 2007. Medical school Split, Skills of medical education and research, Medical School Split, Split, Croatia, 2012.
PRIZES AND AWARDS	
Prizes and awards for teaching and research	 Acknowledgement of the Croatian Medical Association for improving medical profession, improving health and humanitarian activity (2008.) Diploma of the Croatian Medical Association for significant contribution in professional, scientific, and ethic principles and improvement of national health (2014.) Muniment of the Croatian Chamber of Dental Medicine (HKDM) for special contribution to the development and improvement of dental activity in the Republic of Croatia, significant merits and assistance to the Chamber in accomplishing its tasks (2016)

4.	Muniment of the Croatian Medical Association for a special
	contribution to the development and improvement of
	healthcare and healthcare activities in the Republic of Croatia,
	for the contribution of medical science and significant merit and
	assistance to the Croatian Medical Association in the
	accomplishment of its tasks (2017.)
5.	Ladislav Rakovac Award of the Croatian Medical Association
	Assembly for the achieved results in the development of
	medicine, medical thought and science and especially for
	effective work in the Choir (2019)

Title, name and last name of the course leader	Associate professor Snježana Mardešić, MD
Title of the course at the proposed	Histology and Embryology
study programme	Laboratory histopathological techniques
GENERAL INFORMATION ON COURSE L	EADER
E-mail address	<u>smardesi@mefst.hr</u>
Personal web page	/
Year of birth	1979.
Scientist ID	307826
CROSBI profile ID	33521
Research rank and date of the last	Senior research associate – 13. 11. 2018.
appointment	
Research and teaching or teaching	Associate professor of Histology and Embryology- 1. 4. 2019.
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Basic sciences, Cytology, Histology and
research rank	Embryology
INFORMATION ON CURRENT EMPLOYM	
Institution of employment	School of Medicine, University of Split
Date of employment	1.07.2008.
Job title (professor, researcher,	Associate professor
associate teacher, etc.)	
Field of research	Human embryology and histology
Position in the institution	Head of Histology and Embryology Department, School of Medicine, University of Split
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	Doctor of Philosophy
Institution	School of Medicine, University of Split
Place	Split, Croatia
Date	10.2.2012.
INFORMATION ON ADDITIONAL TRAINI	NG
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English-Excellent
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	Corman Good
foreign language on a scale from 2	German-Good
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	- Graduate education:
teacher of similar courses (title of	Histology and Embryology (School of Medicine in Split and
course, study programme where it	Mostar).
is/was held, and level of study	- Embryology and Histology, Department of Health Studies,
programme)	University of Split
	Laboratory histopathologic technics, Department of Health
	Studies, University of Split

	 Elective courses "Development and anomalies of head and neck", "Test tube baby", "The secrets of human development", "Sport and steroid abuse" e-teaching: Elective course "Development and anomalies of the head and neck" <i>Postgraduate teaching</i>- Postgraduate study Biology of the neoplasm, School of Medicine in Split: Elective course "Human embryo: development, anomalies and tumors", "Development, anomalies and tumors of the head and neck"
Authorship of university textbooks from the field of the course	Saraga-Babić M, Puljak L, Mardešić S, Kostić S, Sapunar D. "Human Embryology and Histology", University of Split, 2015. Glavina Durdov M, Bedrina K, Mardešić S . Laboratory histopathologic technics Redak, Split. 2015.
Professional and research papers published in the last five years from the field of the course (max 5 references)	 Solic, I.; Racetina, A.; Filipovic, N.; Mardesic, S.; Bocina, I.; Galesic-Ljubanovic, D.; Glavina Durdov, M.; Saraga-Babic, M.; Vukojevic, K. Expression Pattern of α-Tubulin, Inversin and Its Target Dishevelled-1 and Morphology of Primary Cilia in Normal Human Kidney Development and Diseases. International Journal of Molecular Science 22 (7), 2021. Boric, K.; Mardesic, S.; Martinovic Kaliterna, D.; Radic, M.; Tadin Hadjina, I.; Vukojevic, K.; Kosovic, I.; Solic, I.; Zekic Tomas, S.; Saraga-Babic, M.Expression of apoptotic and proliferation factors in gastric mucosa of patients with systemic sclerosis correlates with form of the disease. Scientific Reports 9 (1), 2019. Racetin A, Raguž F, Durdov MG, Kunac N, Saraga M, Sanna- Cherchi S, Šoljić V, Martinović V, Petričević J, Kostić S, Mardešić S, Tomaš SZ, Kablar B, Restović I, Lozić M, Filipović N, Saraga-Babić M, Vukojević K. Immunohistochemical expression pattern of RIP5, FGFR1, FGFR2 and HIP2 in the normal human kidney development. Acta Histochem.;121(5):531-538, 2019. Bečić T, Bilan K, Mardešić S, Vukojević K, Saraga-Babić M. Growth factors FGF8 and FGF2 and their receptor FGFR1, transcriptional factors Msx-1 and MSX-2, and apoptotic factors p19 and RIP5 participate in the early human limb development Acta Histochem. 120(3):205-214, 2018. Rancic A, Filipovic N, Marin Lovric J, Mardesic S, Saraga- Babic M, Vukojevic K; Neuronal differentiation in the early human retinogenesis. Acta Histochemica 119(3):264-272, 2017.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	20182023. project participant Characterization of candidate genes in congenital anomalies of the kidney and urinary system (CAKUT) during mouse and human development HRZZ IP-06-2016-2575

	2020 - 2023 project participant SI4CARE -Social Innovation for integrated health CARE of ageing population in ADRION Regions.
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	 Course "Skills for medical education and scientific work", School of Medicine, University of Split, 2011.
PRIZES AND AWARDS	
Prizes and awards for teaching and research	

First and last name and title of teacher	Nina Mišić Radanović, PhD. Assistant professor
The course he/she teaches in the	Social and Health Legislation
proposed study programme	
GENERAL INFORMATION ON COURSE TE	ACHER
E-mail address	nina.misic.radanovic@unist.hr
Personal web page	
Year of birth	1988.
Scientist ID	348995
Research or art rank, and date of last	
rank appointment	
Research-and-teaching, art-and-	Assistant professor, 10.7.2018.
teaching or teaching rank, and date of	
last rank appointment	
Area and field of election into	Scientific area: social sciences
research or art rank	Scientific field: law
INFORMATION ON CURRENT EMPLOYM	ENT
Institution where employed	University of Split, University Department of Forensic sciences
Date of employment	14.11. 2012.
Name of position (professor,	Assistant professor
researcher, associate teacher, etc.)	
Field of research	Criminal law, Criminal procedure law, Civil law, Civil procedure law,
Function	Head of Chair of Jaw sciences
INFORMATION ON EDUCATION – Highes	st degree earned
Degree	PND.
Institution	Faculty of law, University of Mostar
Place	Mostar
Date	21.10.2017.
INFORMATION ON ADDITIONAL TRAININ	NG
Year	
Place	
Institution	
Field of training	
MOTHER TONGUE AND FOREIGN LANG	JAGES
Mother tongue	Croatian
Foreign language and command of	English - 4
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian - 3
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course teacher	- Law in Forensic sciences - graduate university study of
of similar courses (name title of	Forensics
course, study programme where it	Civil law and civil procedure - graduate university study of
is/was offered, and level of study	FORENSICS
programme)	- Criminal law - graduate university study of Forensics
	 Forensics and nability in medicine - graduate university study of Forensics
	 Introduction to law 1 – undergraduate university study of
	Forensics

	 Introduction to law II undergraduate university study of Forensics
Authorship of university/faculty textbooks in the field of the course	
Professional, scholarly and artistic articles published in the last five years in the field of the course (5 works at most)	 MIŠIĆ RADANOVIĆ, Nina: Pristanak pacijenta na medicinski zahvat kao razlog za isključenje protupravnosti, Zbornik radova Pravnog fakulteta u Splitu, god.55. 4/2018. str. 865892. MIŠIĆ RADANOVIĆ, Nina: Novo kazneno djelo prisile prema zdravstvenom radniku, Zbornik radova s međunarodnog kongresa "1. Kongres KOKOZ-a i 3. Hrvatski kongres medicinskog prava s međunarodnim sudjelovanjem", Rabac, 2019., str. 147170. MIŠIĆ RADANOVIĆ, Nina: Prijepori o kaznenoj odgovornosti medicinskih djelatnika za stručnu pogrešku, Godišnjak Akademije pravnih znanosti Hrvatske, Vol. XI. No.1, 2020, str. 41-62, MIŠIĆ RADANOVIĆ, Nina, VUKUŠIĆ, Ivan: Quality standard and causality in healthcare malpractice, ECLIC, Osijek, rujan 2020. MIŠIĆ RADANOVIĆ, Nina: Pravni aspekti odbijanja medicinskog postupka, Godišnjak Akademije pravnih znanosti Hrvatske, XII (2021.) str. 263287.
Professional and scholarly articles published in the last five years in subjects of teaching methodology and teaching quality (5 works at most)	
Professional, science and artistic projects in the field of the course carried out in the last five years (5 at most)	
The name of the programme and the volume in which the main teacher passed exams in/acquired the methodological-psychological- didactic-pedagogical group of competences?-pedagoške kompetencije?	Seminar for development and training of pedagogical competencies of university lecturers, CIRCO - Center for research and development of lifelong learning, February 28, 2013.
PRIZES AND AWARDS, STUDENT EVALUA	ATION
Prizes and awards for teaching and scholarly/artistic work	Commendation to the first author of the best scientific work created at the University Department of Forensic Sciences published in the academic year 2019/2020 Acknowledgment for special contribution to the work of the Commission for launching the undergraduate university study of Forensics
Results of student evaluation taken in the last five years for the course that is comparable to the course described in the form (evaluation organizer, average grade, note on grading scale and course evaluated)	Student surveys – average grade 4,8

Title, name and last name	Assistant professor Antonela Matana, PhD
Title of the course at the proposed	Healthcare Informatics and Statistics
study programme	Use of Scientific Technology
	Mathematics
GENERAL INFORMATION ON COURSE LE	ADER
E-mail address	antmatana@ozs.unist.hr
Year of birth	1989.
Scientist ID	365156
CROSBI profile ID	34453
Research rank and date of the last	Research associate, 10.7. 2019
appointment	
Research and teaching or teaching	Assistant professor, 24.11.2020.
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Basic Medical Sciences
research rank	
INFORMATION ON CURRENT EMPLOYM	ENT
Institution of employment	The University of Split, University Department of Health Studies
Date of employment	20. 4 2021
Job title (professor, researcher,	Assistant professor
associate teacher, etc.)	
Field of research	Biostatistics
Position in the institution	Assistant professor
INFORMATION ON EDUCATION – Highe	st degree achieved
Degree	PhD
Institution	University of Split, School of Medicine
Place	Split, Croatia
Date	21.12.2018
INFORMATION ON ADDITIONAL TRAINI	NG
Year	2019.
Place	Split, Croatia
Institution	The University of Split, Faculty of Science
Field of training	Bioinformatics and Statistics
Year	2017
Place	London, England
Institution	Imperial College London, London
Field of training	Genome-wide association studies
Year	2017
Place	Split, Croatia
Institution	The University of Split, Faculty of Science
	Bioinformatics and Statistics
MOTHER TONGUE AND FOREIGN LANG	JAGES
Foreign longue	
foreign language and command of	English - S
(sufficient) to 5 (overlight)	
Farlier experience as course	Γ.
teacher of similar courses (title of	
course study programme where it	
is/was held, and level of study	
programme)	
Authorship of university textbooks	-
from the field of the course	

Professional and research papers published in the last five years from the field of the course (max 5 references)	 Matana A, Boutin T, Torlak V, Brdar D, Gunjaca I, Kolcic I, et al. Genome-wide analysis identifies two susceptibility loci for positive thyroid peroxidase and thyroglobulin antibodies. J Clin Endocrinol Metab. 2019. Matana A, Ziros PG, Chartoumpekis DV, Renaud CO, Polasek O, Hayward C, et al. Rare and common genetic variations in the Keap1/Nrf2 antioxidant response pathway impact thyroglobulin gene expression and circulating levels, respectively. Biochem Pharmacol. 2019. Matana A, Popovic M, Boutin T, et al. Genetic Variants in the ST6GAL1 Gene Are Associated with Thyroglobulin Plasma Level in Healthy Individuals. Thyroid. 2019;29(6):886-893. Punda A, Škrabić V, Torlak V, Gunjača I, Boraska Perica V, Kolčić I, Polašek O, Hayward C, Zemunik T, Matana A. Thyroid hormone levels are associated with metabolic components: a cross-sectional study. Croat Med J. 2020 Jul 5;61(3):230-238. Matana A, Brdar D, Torlak V, Boutin T, Popović M, Gunjača I, Kolčić I, Boraska Perica V, Punda A, Polašek O, Barbalić M, Hayward C, Zemunik T. Genome-wide meta-analysis identifies novel loci associated with parathyroid hormone level. Mol Med. 2018 Apr 11;24(1):15.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects	2021 – Principal investigator at the Institutional project "Adherence
from the field of the course carried	to the pattern of the Mediterranean diet and the level of physical activity in children and youth in Croatia"
references)	
	2020 - 2024 Associate at the Croatian Science Foundation "Research project" Regulation of thyroid and parathyroid function and blood calcium homeostasis ", leader prof. Tatijana Zemunik
	2014 - 2018 Doctoral student at the Croatian Research Institute of Research Project IP-11-2013 No. 1498 "Discovery of new gene loci involved in the regulation of thyroid and thyroid function", leader prof. Tatijana Zemunik
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	Undergraduate study of Mathematics and Informatics at the Faculty of Science in Split, Croatia.
PRIZES AND AWARDS	
Prizes and awards for teaching and research	2021. University of Split Science Award 2020 in the category of Young Scientists for the best-ranked scientists according to WoSCC and Scopus databases
	2017. Best Presentation Award, "ICHG 2017: 19th International Conference on Human Genetics, December 18-19 2017", Bangkok, Thailand
	2012. Scholarship of the European Society of Human Genetics (ESHG) for participation in a training course: "Introduction to the statistical analysis of genome-wide association studies", Department of Genomics of Common Disease, Imperial College London, UK

Title, name and last name of the	Associate professor Ante Obad, MD, PhD
course leader	DL
litle of the course at the proposed	Physiology
E mail address	EADER
Porconal web page	https://publops.com/rocoarchor/2124976/anto.obad/
Voor of hirth	1072
Scientist ID	276655
CROSBI profile ID	23101
Research rank and date of the last	Senior research associate 01/07/2018
appointment	
Research and teaching or teaching	Associate professor, 22/01/2019
rank, and the date of the last	
appointment	
Area and field of appointment into	Biomedicine and Health, Basic medical sciences, Human physiology
Institution of employment	University of Split University Department of Health Studios
Date of employment	16/10/2012
Ioh title (professor researcher	Associate professor
associate teacher, etc.)	
Field of research	Internal medicine, Cardiology
Position in the institution	Associate professor, Deputy Head of the Department,
	Assistant to the Head of the Department for Development and
	Innovation
INFORMATION ON EDUCATION - High	est degree achieved
Degree	PhD
Institution	School of Medicine, University of Zagreb
Place	Zagreb, Croatia
Date	2009
INFORMATION ON ADDITIONAL TRAIN	ING
Year	1998 and 1999
Place	Zagreb, Croatia
Institution	Clinical Hospital Merkur, Department for Radiology
Field of training	Postgraduate course for medical doctors I category: "Ultrasound of
	abdominal organs" (1998);
	"(Iltrasound of thyroid giand and surface organs (1998);
Vear	
Place	London, United Kingdom
Institution	Imperial College of Medicine. Department for Cardiology
Field of training	Course in Echocardiography
Year	2002
Place	Bad-Oyenhausen, Germany
Institution	Herz und Diabeteszentrum, Department for Cardiology
Field of training	Education in area of Echocardiography
Year	2007
Place	Zagreb, Croatia
Institution	Clinical Hospital Dubrava
Field of training	Course in Transesophageal Heart Ultrasound
Year	2009
Place	Liverpool, United Kingdom
Institution	Jhon Moores University, School of Sport and Exercise Sciences
Field of training	Course in Cardiovascular Ultrasound in Sport and Exercise Science
Year	2010
Place	Trondheim, Norway

Institution	NTNU Trondheim
Field of training	Education from echocardiography, tissue doppler
Year	2013
Place	Baar, Switzerland
Institution	Switzerland cardiology society
Field of training	Course on CPET (Cardiopulmonally exercise training)
Year	2018-2019
Place	Geneva, Switzerland
Institution	Geneva School of Diplomacy and International Relations
Field of training	Executive diploma in diplomatic practice
MOTHER TONGUE AND FOREIGN LANC	GUAGES
Mother tongue	Croatian
Foreign language and command of	English – excellent (5)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	Lecturer at the Department of Physiology, Faculty of Medicine since
teacher of similar courses (title of	2004 an in other study programs of health faculties University of Split
course, study programme where it	(Dentistry, Pharmacy, English study of Medicine).
is/was held, and level of study	Since 2012 is a course leader of "Physiology" at the University
programme)	Department of Health Studies
Authorship of university textbooks	
from the field of the course	-
Professional and research papers	1. Zubac, Damir; Obad, Ante; Zec, Mirela; Bosnjak, Ana; Ivancev,
published in the last five years from	Vladimir; Valic, Zoran.
the field of the course (max 5	Spleen Contraction During Step-Transition Supine Cycling
references)	Exercise: Preliminary findings // The FASEB journal,
	35 (2021), 1; 456-456
	2. Zubac, Damir; Obad, Ante; Zec, Mirela; Bosnjak, Ana; Ivancev,
	Vladimir; Valic, Zoran.
	Spleen Contraction During Step-Transition Supine
	Cycling Exercise: Preliminary findings // The FASEB
	journal, 35 (2021), 1; 456-456
	3. Segrt Ribičić, Ivana; Valić, Maja; Božić, Joško; Obad,
	Ante; Glavas, Duska; Glavicic, Igor; Valic, Zoran
	Influence of oxygen enriched gases during
	decompression on bubble formation and endothelial
	diving: a randomized controlled study // Creation modical
	iournal 60 (2010) 265 272
	Journal, ou (2013), 203-272 A Mijacika Tanja: Frestad Daria: Kuhl Kasper: Barak
	Otto: Drviš Ivan: Secher Niels H : Buca Ante: Obad
	Ante: Duijc Ante: Madsen Per Lav
	Blood pooling in extrathoracic veins after
	glossopharyngeal insufflation // European iournal of
	applied physiology, 117 (2017), 4; 641-649
	5. Susilovic-Grabovac, Zora; Obad, Ante; Duplančić, Darko;
	Banić, Ivana; Brusoni, Denise; Agostoni, Piergiuseppe;
	Vuković, Ivica; Dujic, Zeljko; Bakovic, Darija
	2D speckle tracking echocardiography of the right
	ventricle free wall in SCUBA divers after single open sea
	dive // CLINICAL AND EXPERIMENTAL
	PHARMACOLOGY AND PHYSIOLOGY, 45 (2017), 3;
	234-240
Professional and research papers	-

In methodology and quality of teaching published in the last five	
years (max 5 references)	
Professional and research projects	Active participation in the realization of scientific-research projects:
from the field of the course carried	1. Diving with compressed air and cardiovascular system; project
out in the last five years (max 5	code: 216-2160133-0130; duration of the project: 01/01/2007-
references)	31/12/2013
	2. Apnea diving and cardiovascular system; project code; 216-
	2160133-0330; duration of the project: 01/01/2007-
	31/12/2013
	3. Cardiovascular effects of wine and its ingredients; project code:
	210-2100547-0537; duration of the project. 01/01/2007-
	31/12/2013
	4. Natural sources of resveration and its synergistic effect with
	of the project: 01/01/2007-01/01/2009
	5 Heart failure in Croatia: project code: 108-1081875-1927
	duration of the project: 01/01/2007-01/01/2009
Within which program and to what	
extent did the course teacher	
acquire methodological,	
psychological, didactic and	
pedagogical competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and	Acknowledgment of the University Department of Health Studies for
research	contribution to the University Department of Health Studies
	University of Split; May 2021

Title, name and last name of the course leader	prof.Valdi Pešutić-Pisac, full professor
Title of the course at the proposed	Pathology
study programme	5,
GENERAL INFORMATION ON COURSE LI	ADER
E-mail address	valdypp@gmail.com
Personal web page	no
Year of birth	1962
Scientist ID	147360
CROSBI profile ID	26679
Research rank and date of the last	Full scientific consultant 10.07.2019
appointment	
Research and teaching or teaching	Full professor 12.07.2019.
rank, and the date of the last	
Area and field of appointment into	
Area and neid of appointment into	
	Biomedicine and health, field of clinical medical sciences
Institution of employment	KBC Split: Medicinski Fakultet u Splitu
Date of employment	1989· 2004
lob title (professor, researcher	Pathologist professor
associate teacher. etc.)	
Field of research	Pathology, education
Position in the institution	Pathologist, Head of Department of Pathology
INFORMATION ON EDUCATION - Highe	st degree achieved
Degree	PhD; full professor
Institution	Medical School University of Zagreb; Medical School University of
	Split
Place	Zagreb; Split
Date	2000; 2019
INFORMATION ON ADDITIONAL TRAINI	NG
Year	1995.; 1996.; 1998.;1999; 2001; 2003;2005
Place	Rome, Zagreb
Institution	»Sacro Cuore» Rome, Italy, Department of Pathology, Tumor
	Institute . Zagreb Hrvatska
Field of training	Pathology
MOTHER TONGUE AND FOREIGN LANG	UAGES
Mother tongue	Croatian
Foreign language and command of	English 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	Italian 5
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	
Earlier experience as course	
teacher of similar courses (title of	Undergraduate teaching:
course, study programme where it	- Undergraduate teaching in Pathology, Doctor of Medicine, Faculty
is/was held, and level of study	of Medicine, University of Split and Mostar
programme)	- Undergraduate teaching in Pathology, Dental Medicine, Faculty of
	Medicine in Split

	 - Undergraduate teaching in Pathology, study Pharmacy, Faculty of Medicine in Split -Undregraduate teaching in Pathology, Medical Studies in English, Faculty of Medicine in Split - study of Nursing, University Department of Health Studies, University of Split -study of Nursing, University of Dubrovnik Postgraduate teaching - Postgraduate doctoral study "Evidence-based medicine" of the Medical Faculty in Split (Elective course: "Precancerous lesions of the digestive system") -Postgraduate doctoral study "Biology of neoplasms", Faculty of Medicine Split (elective course "Molecular diagnostics of tumors of the urinary system and male reproductive system"
Authorship of university textbooks from the field of the course	 Author of the chapter "Gastrointestinal system" in books : Damjanov I, Jukić S. Specijalna patologija, Medicinska naklada, Zagreb, 2004; 221-277. Damjanov I, Jukić S, Nola M. Patologija. Medicinska naklada , Zagreb, 2008; 391-435. Damjanov I, Jukić S, Nola M. Patologija. Medicinska naklada , Zagreb, 2011;505-564. Author of the chapter "Endocrine System Diseases" in books: Damjanov I, Seiwerth S,Jukić S, Nola M. Patologija. Medicinska naklada , Zagreb, 2014; 659-696 Damjanov I, Seiwerth S,Jukić S, Nola M. Patologija. Medicinska naklada , Zagreb, 2018;659-696 Author of the chapter "Pathology of Head and Neck" u knjizi: Prgomet D i sur. Head and Neck Tumors, Medicinska naklada, Zagreb, 2019; 21-46.
Professional and research papers	1. Brčić L, Barić A, Benzon B, Brekalo M, Gračan S, Kaličanin D,
the field of the course (max 5	Skrapic V, Zemunik T, Barbalic M, Novak T, Pesutic Pisac V, Punda A, Boraska Perica V. AATF and SMARCA2 are associated
references)	 with thyroid volume in Hashimoto's thyroiditis patients. Sci Rep. 2020 Feb 4;10(1):1754. doi: 10.1038/s41598-020-58457- x. PMID: 32019955; PMCID: PMC7000742 2.Tonkić A, Vukovic J, Vrebalov Cindro P, Pesutic Pisac V, Tonkic M. Diagnosis of Hellicobacter pylori infection: A short review. Wien Klin Wochenschr. 2018 ;130(17-18): 530-534 3.Kontić M.Čolović Z,Paladin I, Gabelica M,Barić A, Pešutić- Pisac V. Association between EGFR expression and clinical outcome of laryngeal HPV squamous cell carcinoma, Acta Otolaryngol. 2019 Aug 20:1-5 4. Punda A, Bedeković V, Barić A, Kontić M, Čolović Z, Vanjaka Rogošić L, Punda H, Kunac N, Grandić L, Pešutić Pisac V. RET expression and its correlation with clinicopathologic data in papillary thyroid carcinoma. Acta Clin Croat. 2018 Dec;57(4):646-652 5.Barić A, Marković V, Eterović D, Bedeković V,Kontić M, Juretić Kuščić L, Pešutić Pisac V,Punda A. Cyclin D1, RET and p27 Expression in Papillary Microcarcinoma. Acta Clin Croat 2017; 56(1): 15-20.
Professional and research naners	

In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5 references)	 Carcinogenesis and prognostic markers in laryngeal squamous cell carcinoma - Code: 216-0000000-0085; Ministry of science, education and sport – Head of project Regulation of thyroid and parathyroid function and blood calcium homeostasis - associate on project (1. 3. 2020. – 29. 2. 2024). Head of project: Prof. dr. sc. Tatijana Zemunik Genetic and epigenic markers as indicators of aggressiveness of differentiated thyroid cancer (ThyroGene Mark)- associate on project Croatian Science Foundation project Head of project : academician Zvonko Kusić
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies? PRIZES AND AWARDS	Medical school of Split- Educator education course
Prizes and awards for teaching and research	Award for the best professor- Medical school of Split 2009. Award of Croatian Medical Association 2010.

Title, name and last name of the	Mirna Saraga-Babić, full professor with tenure
Title of the course at the proposed	Histology and Embryology
study programme	histology and Embryology
GENERAL INFORMATION ON COURSE I	ADER
E-mail address	msb@mefst.hr
Personal web page	/
Year of birth	1955
Scientist ID	111141
CROSBI profile ID	25396
Research rank and date of the last	
appointment	
Research and teaching or teaching	Full professor of Histology and Embryology- permanent position,
rank, and the date of the last	10 th of April 2008.
appointment	
Area and field of appointment into	Biomedicine and Health, Basic sciences, Cytology, Histology and
research rank	Embryology
INFORMATION ON CURRENT EMPLOYM	
Institution of employment	School of Medicine, University of Split
Lob title (professor researcher	1.UJ.1J01.
associate teacher etc.)	professor
Field of research	Human embryology and histology
Position in the institution	Head of the Department of Anatomy, Histology and Embryology
	School of Medicine. University of Split
INFORMATION ON EDUCATION - Highe	st degree achieved
Degree	Doctor of Philosophy
Institution	School of Medicine, University of Zagreb
Place	Zagreb, Croatia
Date	1989
INFORMATION ON ADDITIONAL TRAINI	NG
Year	1/ 1983, 1984; 2/ 1993; 3/ 1988, 1991, 2000
Place	1/ Tubingen, Germany; 2/ Gottingen, Germany, 3/ Helsinki, Finland
Institution	1/ Max-Planck Institute; 2/ Max-Planck Institute; 3/ Institute of
	Biotechnology
Field of training	1/ Electron microscopy; 2/ In situ hybridization; 3/
Mother tongue	Croatian
Foreign language and command of	English-Excellent
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
Foreign language and command of	
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMPETENCES FOR THE COURSE	Conductor education
Earlier experience as course	- Gravate eaucation:
course study programme where it	mistology and empryology (School of Medicine in Split, Zagreb and Mostar, School of Dental Medicine in Split)
is/was held and level of study	- Embryology and Histology Denartment of Health Studies
programme)	University of Split
F 8	- Elective courses "Development and congenital kidnev diseases".
	"Fertilization"
	- e-teaching: Elective course "Development and anomalies of the

	 head and neck" <i>Postgraduate teaching-</i> Postgraduate study Biology of the neoplasm, School of Medicine in Split: Elective course "Human embryo: development, anomalies and tumors" Postgraduate teaching – Postgraduate study, School of Medicine in Mostar, BiH Visiting professor - Postgraduate study in Biomedicine, School of Medicine in Rijeka, Croatia <i>Teacher at Courses of Permanent Medical Education</i>
Authorship of university textbooks from the field of the course	Saraga-Babić M., Švajger A., Sapunar D., Pintarić I., Anđelinović Š., Saraga M.: Development and congenital kidney diseases", School of Medicine, University of Zagreb, 1992 Banović I, Peruzović M., Saraga-Babić M., Sapunar D.: Fertilization, School of Medicine, University of Zagreb, 1992 Saraga-Babić M: Respiratory system. In Junqueira LC, Carneiro J. and Kelly RO. Basic Histology (Croatian edition), pp.338-358 (7 th edition), Školska knjiga, Zagreb, 1995 Saraga-Babić M.: Adrenals, Islets of Langerhans, Thyroid, the Parathyroid glands, the Pineal body. In Junqueira LC, Carneiro J. and Kelly RO. Basic Histology (Croatian edition), pp.305-424 (7 th edition), Školska knjiga, Zagreb, 1995. Saraga-Babić M: With game through anatomy 5 Embryology, Sobotta: Atlas of Anatomy- cards for learning. (Croatian edition), Naklada Slap, Jastrebarsko, 2002. Mirna Saraga-Babić et al. "Human Embryology and Histology", University of Split, 2015. Saraga- Babić M, Sapunar D "Atlas of Human Embryology", Chronolab, Chrono Educa, 1996 Sapunar D., Saraga-BabićM "Atlas of Histology", School of Medicine, University of Split, 2008
Professional and research papers published in the last five years from the field of the course (max 5 references)	 Punda H, Mardesic S, Filipovic N, Kosovic I, Benzon B, Ogorevc M, Bocina I, Kolic K, Vukojevic K, Saraga-Babic M. Expression Pattern of 5-HT (Serotonin) Receptors during Normal Development of the Human Spinal Cord and Ganglia and in Fetus with Cervical Spina Bifida. International Journal of Molecular Sciences, 22(14):7320-, 2021 Ivona Kosovic, Natalija Filipovic, Benjamin Benzon, Katarina Vukojevic, Marijan Saraga, Merica Glavina Durdov, Ivana Bocina, Mirna Saraga-Babic Spatio-temporal patterning of different connexins regulates normal human kidney development and CNF, Scientific Reports, 10(1):8756-, 2020. Ivona Kosovic , Natalija Filipovic, Benjamin Benzon, Ivana Bocina, Merica Glavina Durdov, Katarina Vukojevic, Marijan Saraga and Mirna Saraga-Babic. Connexin signaling in juxtaglomerular apparatus (JGA) of developing, postnatal healthy and nephrotic human kidneys, International Journal of Molecular Sciences, 21(21):8349-, 2020. Katarina Vukojevica, Fila Raguz, Marijan Saraga, Natalija Filipovica, Ivana Bocina,Darko Kero, Merica Glavina Durdov, Vlatka Martinovic, Mirna Saraga-Babica Glomeruli from patients with

	nephrin mutations show increased number of ciliated and poorly differentiated podocytes. Acta Histochemica, 120(8): 748-756, 2018. Natalija Filipovic1 · Katarina Vukojevic1 · Ivana Bocina2 · Marijan Saraga3 ·Merica Glavina Durdov4 · Boris Kablar5 · Mirna Saraga-Babic1 Immunohistochemical and electronmicroscopic features of mesenchymal-to-epithelial transition in human developing, postnatal and nephrotic podocytes. Histochemistry and Cell Biology, 147(4):481-495, 2017.
Professional and research papers In methodology and quality of teaching published in the last five years (max 5 references)	
Professional and research projects from the field of the course carried out in the last five years (max 5	Gene expression in early human development, MZOS, Republic of Croatia, no. 216-2160528-0507
references)	Characterization of candidate genes in congenital anomalies of the kidney and urinary system (CAKUT) during mouse and human development (2018-2022)
Within which program and to what extent did the course teacher acquire methodological, psychological, didactic and pedagogical competencies?	
PRIZES AND AWARDS	
Prizes and awards for teaching and research	Award for science, University of Split, 2017.

First and last name and title of	Davorka Sutlovic, Full professor with tenure
teacher	
The course he/she teaches in the	General Chemistry and stoichiometry
proposed study programme	Analytical Chemistry
	Organic Chemistry
	Instrumental techniques in MLD
	FOOD LOXICOLOgy
GENERAL INFORMATION ON COURSE T	EACHER
E-mail address	dsutlovic@ozs.unist.hr
Personal web page	http://ozs.unist.hr/o-odjelu/ustroj-odjela/uprava/pomocnik-
	procelnika-odjela-za-nastavu
Year of birth	1961.
Scientist ID	256403
rank appointment	Scientific advisor with tenure; 2019.
Research-and-teaching art-and-	Full professor with tenure 2020
teaching or teaching rank and date	
of last rank appointment	
Area and field of election into	Biomedicine and health- Basic medical sciences
research or art rank	Interdisciplinary sciences - Basic medical sciences/pharmacy
INFORMATION ON CURRENT EMPLOY	/FNT
Institution where employed	University of Split -University department of health studies /
	Medical School Split
Date of employment	2019. /2008.
Name of position (professor,	Full professor with tenure
researcher, associate teacher, etc.)	
Field of research	chemistry and instrumental tehniques
Function	Head of the Department of Basic medical sciences; Assistant to the
	Head of Department for Education
INFORMATION ON EDUCATION – Highest degree earned	
Degree	Ph.D.
Institution	UNIVERSITY OF SPLIT- SCHOOL OF MEDICINE
Place	SPLIT
Date	2005
INFORMATION ON ADDITIONAL TRAIN	NG
Year	2018; 2015; 2011; 2007; 2005; 2005; 2005; 2004; 2004; 1998;
Place	Slovenia-Otočec; Italy-Florence; Italy, Pavia and Verona; Greek-
	Athens; ZAGREB; Germany – Duisburg; ZAGREB; Plitvice; Germany -
	Darmstadth; PULA ;
Institution	European Societies of Toxicology ; Forensic Toxicology Unit,
	Department of Health Science, University of Florence; Clinical
	Hospital; Medical School; Medical School- Department of forensic
	science and criminology; Snimadzu; Center for Criminalistic
	Applied Biosystems: European Societies of Toxicology,
Field of training	Specialized toxicology course - Regulatory toxicology: Toxicology
	Clinical toxicology: Forensic toxicology: Forensic toxicology:
	Toxicology; Forensic toxicology; Toxicology; Toxicology; Toxicology
MOTHER TONGUE AND FOREIGN LANG	SUAGES
Mother tongue	Croatian
Foreign language and command of	English (3)
foreign language on a scale from 2	
(sufficient) to 5 (excellent)	
COMILETENCESTON THE COURSE	

Earlier experience as course teacher	1. UNDERGRADUATE AND GRADUATE: ON MEDICINE STUDY
of similar courses (name title of	from 2000 Forensic science
course, study programme where it	from 2007 Small dose of toxicology
is/was offered, and level of study	from 2007 Drugs Abuse in sport
programme)	
	2. UNDERGRADUATE AND GRADUATE: STUDY OF PHARMACY
	from 2011 Forensic pharmacy
	from 2011 Pharmaceutical toxicology
	3. UNDERGRADUATE AND GRADUATE: STUDY OF MEDICAL
	LABORATORY DIAGNOSTICS
	from 2012 INSTRUMENTAL TECHNIQUES IN MLD
	from 2019 - General chemistry and stoichiometry
	from 2019 Analytical chemistry
	from 2019 Organic chemistry
	from 2019 Introduction to scientific work
	4. GRADUATE: STUDY FOR FORENSIC SCIENCES
	from 20102017. Forensic chemistry and toxicology I
	from 20102017. Forensic chemistry and toxicology II
	from 2010 2017. Applied forensic toxicology
	from 2010 2017. Food Toxicology
	5. POSTGRADUATE STUDY:
	5.1.ON MEDICAL SCHOOL SPLIT
	from 2007 Biochemical mechanisms of toxicity
	5.2.ON LAW SCHOOL SPLIT - STUDY OF MEDICAL LAW
	from 2007 Forensic medicine
	nom 2007 CSI Spirt - Medical criminology
	5.3 ON PHARMACEUTICAL AND BIOCHEMISTRY SCHOOL OF ZAGREB
	STUDY OF TOXICOLOGY
	from 2011 Forensic toxicology in human medicine
Authorship of university/faculty	1. SutloviC Davorka, et al. Fundamentals of Forensic
textbooks in the field of the course	Toxicology. Split: Redak; 2011.
	2. Sutlovic Davorka, et al. Food Toxicology. Split: Redak; 2011.
	 Sutiovic Davorka. Basics of chemistry, forensics manual for students. Split: Bodak: 2012
	4 Kovačić Zdravko: Nestić Marina: Sutlović Davorka Forensic
	toxicology // Forensic medicine and deontology/ Maver.
	Davor (ur.). Zagreb: Medicinska naklada, 2018. 153-201.
Professional, scholarly and artistic	1. Sutlović, Davorka; Kuret, Sendi; Definis, Marija
articles published in the last five	New psychoactive and classic substances in pooled urine
years in the field of the course (5	samples collected at the Ultra Europe festival in Split,
works at most)	Croatia // Arhiv za higijenu rada i toksikologiju, 72 (2021),
	3; 198-204 doi:10.2478/aint-2021-72-3509 (medunarodna
	 Nedoklan Srđan: Knezović Zlatka: Knezović Nina: Sutlović
	Davorka
	Nutrition and mineral content in human teeth through THE
	CENTURIES // Archives of oral biology, 124 (2021), 105075,
	8 doi:.org/10.1016/j.archoralbio.2021.105075
	(međunarodna recenzija, članak, znanstveni)

	 Sutlović, Davorka; Ključević, Željko; Kuret, Sendi ABCB1, CYP2B6, and CYP3A4 genetic polymorphisms do not affect methadone maintenance treatment in HCV-positive patients // Arhiv za higijenu rada i toksikologiju, 71 (2020), 4; 353-358 doi:10.2478/aiht-2020-71-3378 (međunarodna recenzija, članak, znanstveni) Patrician, Alexander; Versic-Bratincevic, Maja; Mijacika, Tanja; Banic; Ivana; Marendic, Mario; Sutlović, Davorka; Dujić, Željko; Ainslie, Philip N. Examination of a New Delivery Approach for Oral Cannabidiol in Healthy Subjects: A Randomized, Double- Blinded, Placebo-Controlled Pharmacokinetics Study. // Advances in therapy, 36 (2019), 11; 3196-3210 doi:10.1007/s12325-019-01074-6 (međunarodna recenzija, članak, znanstveni) Ključević, Željko; Benzon, Benjamin; Ključević, Nikola; Veršić Bratinčević, Maja; Sutlović, Davorka Liver damage indices as a tool for modifying methadone maintenance treatment: a cross-sectional study // Croatian <i>medical journal</i>, 59 (2018), 298-306 (međunarodna recenzija, članak
Professional and scholarly articles published in the last five years in	
subjects of teaching methodology and teaching quality (5 works at	
most)	
Professional, science and artistic projects in the field of the course	 2007 Heavy metals in human remains from Klis and Bribir ancient county; LEADER; FUNDING SOURCE -
carried out in the last five years (5 at most)	MINISTRY OF SCIENCE, EDUCATION AND SPORTS
most)	2. 2007 Cardiovascular effects of while and its constituents; RESEARCHER -FUNDING SOURCE - MINISTRY OF SCIENCE, EDUCATION AND SPORTS
	3. Co-leader of the European project "I-SEE European project
	 Head of the scientific research project of the Government
	of the Republic of Croatia "Intoxication with new
	5. Head of the scientific research project of the Government
	of the Republic of Croatia "Monitoring of intoxications with
	(2018)
The name of the programme and the volume in which the main teacher	Mandatory education at the Medical Faculty Split Tempus Project Training of Trainers in Vienna (2x). Pécs and Zagreh
passed exams in/acquired the	
methodological-psychological-	
competences?-pedagoške	
kompetencije?	
PRIZES AND AWARDS, STUDENT EVALU	JATION
Prizes and awards for teaching and scholarly/artistic work	
Results of student evaluation taken	
in the last five years for the course	
that is comparable to the course	
described in the form (evaluation	
grading scale and course evaluated)	