

JANVERSITY WITE I

PROJECT ERASMUS+



Contents

INTRODUCTION	1
BIOSTATISTICS AND STATISTICAL METHODS IN HEALTHCARE	4
FUNDAMENTALS OF MEDICAL CHEMISTRY AND BIOCHEMISTRY	7
FUNDAMENTALS OF BIOLOGY WITH ECOLOGY	9
MICROBIOLOGY	12
GERIATRICS AND CARE OF THE ELDERLY	
EMERGENCY MEDICINE AND RESUSCITATION	16
INTERNAL MEDICINE AND CARE OF INTERNAL MEDICINE PATIENTS	19
INTRODUCTION TO PHYSIOTHERAPY	22
FUNDAMENTALS OF PHYSICAL MEDICINE AND REHABILITATION	25
PHYSIOTHERAPY IN SURGERY AND TRAUMATOLOGY	28
BALNEOLOGY	30
DISINFECTION, DISINSECTION, AND DERATIZATION	33
MICROBIOLOGICAL ANALYSIS OF FOOD AND WATER	36
TOXICOLOGY	39
PHYSICO-CHEMICAL ANALYSIS OF FOOD AND WATER	42
WASTE MANAGEMENT	45
METHODOLOGY OF SAMPLING IN SANITARY AND HYGIENE SUPERVISION	47
BASIC PRINCIPLES OF DERMATOLOGY OF THE SKIN AND SKIN ADNEXA: PREVENTIVE AND THERAPEUTIC	50
EMERGENCY CONDITIONS IN COSMETOLOGY	52
MONITORING AND CORRECTION OF SKIN AGING PARAMETERS	54
BASIC COSMETIC TREATMENTS OF SKIN ADNEXA	57
SPECIAL COSMETIC TREATMENTS OF SKIN ADNEXA	59
APPLICATION OF INSTRUMENTAL (APPARATUS-BASED) COSMETICS ON SKIN ADNEXA	61
BODY AESTHETICS PARAMETERS	64

INTRODUCTION

Dear Students,

Welcome to the Faculty of Health Sciences

Our mission is to provide students with modern, practice-oriented education through teaching, clinical training, research activities, study visits, conferences, and many other professional experiences.

List of Subjects Offered in English:

	WINTER SEMESTER	SUMMER SEMESTER
	General Co	urses
•	Biostatistics And Statistical Methods in Healthcare Fundamentals Of Medical Chemistry and Biochemistry Fundamentals Of Biology with Ecology	Microbiology
	Nursing	<u> </u>
•	Geriatrics and Care of the Elderly Emergency Medicine and Resuscitation	Internal Medicine and Care of Internal Medicine Patients
	Physiotherapy and Occup	pational Therapy
•	Introduction to Physiotherapy Fundamentals of Physical Medicine and Rehabilitation	 Physiotherapy in Surgery and Traumatology Balneology
	Sanitary Enginee	ering
•	Microbiological Analysis of Food and Water	Disinfection, Disinsection, And Deratization
•	Toxicology	
•	Physico-Chemical Analysis of Food and Water	
•	Waste Management	
•	Methodology of Sampling in Sanitary and Hygiene Supervision	

Cosmetolog	y	
Monitoring and Correction of Skin Aging Parameters		Basic Principles of Dermatology of the Skin and Skin Adnexa: Preventive and Therapeutic Emergency Conditions in Cosmetology Basic Cosmetic Treatments of Skin Adnexa Special Cosmetic Treatments of Skin Adnexa Application of Instrumental (Apparatus-Based) Cosmetics on Skin Adnexa Body Aesthetics Parameters

SYLLABUS

COURSE TITLE	BIOSTATISTICS AND S	TATISTICAL METHODS IN H	EALTHCARE
COCKSE IIIEE			
LEVEL OF STUDY	Undergraduate		
Course Code	1.1.3.Z001	Year of Study	I
Course Instructor(s)	Prof.dr. sc. Jasmin Šutković	Credit Value (ECTS)	6
Teaching Assistants	mr. sc. Ajdina Karić		
		OURSE CRIPTION	
COURSE OBJECTIVES		ize students with methods of data of	collection in statistical
COURSE OBSECTIVES		t population. It equips students with	
	_	are comparable and up to date for	• •
		eus on morbidity, mortality, and vita	
		cal methods for applying models to	
	assess statistical significand	ce, and conduct hypothesis testing.	
Prerequisites and Entry	No Prerequisites		
Competencies			
D (17)		1 1 11 1 1 1 1 1 1 1	.1 . 1
Expected Learning Outcomes at the Course		e and skills planned in the teaching	=
(10 outcomes)	statistical methods of data u	ant to the health status of the popul	iation and master
(10 outcomes)	 Prepare data for state 		
	_	and present measurement results in	healthcare
	•	and understand the logic of basic of	
	descriptive and infe		concepts and methods of
	_	easures of central tendency and dis	spersion
		ce intervals, calculate the t-test, ch	_
	Pearson's correlatio		1 /
	 Select appropriate s 	tatistical methods for analyzing spe	ecific results
		cific, and standardized morbidity ar	
	 Present vital demog 	raphic events of the population	
	 Develop competence 	e in clinical evaluation of medical	tests
	 Adequately interpre 	t the results of statistical analyses	
	•		
Course Content	Detailed Course Content	(by Lectures)	
Detailed According to	Lecture 1		
Teaching Hours	-	collection in health statistics	
	Basic statistical con	-	
	Measurement scales		
	• Measurement errors		
	 Presentation of stati 	stical data	

Role of statistics in health monitoring methods Application of statistical methods and techniques Relative numbers Lecture 2 Measures of central tendency Measures of dispersion Estimation of population parameters and confidence intervals Correlation Regression and regression analysis Lecture 3 Types of samples Sample dependency Population and sample Confidence intervals Normal distribution Position of an individual result within a group Lecture 4 Hypothesis testing and the concept of statistical significance Statistical models for hypothesis testing z-test, t-test, chi-square test, ANOVA Statistical testing and presentation of epidemiological problems Probability distribution Lecture 5 Morbidity statistics General, specific, and standardized rates Quantitative and qualitative statistics in medical research Data collection and analysis for defining health problems Legally prescribed health records Standardized health indicators Vital demographic events of the population Population distribution Structural characteristics of the population Migration statistics Lecture 6 1. Quantitative and qualitative statistics in medical research 2. Screening 3. Test validity 4. Test reliability 5. Test specificity 6. Test sensitivity 7. Case-control studies 8. Statistical inference

Types of	In class	Consultations
Instruction	Online	

Student Workload Monitoring	Class Attendance	1,2	Research		Experime Work	enal
(enter the share in ECTS credits for each activity so that the total number of	Practical Work		Report		Consultations	tions 0,3
ECTS credits corresponds to the credit value of the	Essay		Seminar Paper	1,5	Other (Specify)	
course)	Midterm Exam	1,2	Oral Exam		Other (Specify)	
	Written Exam	1,8	Project		Other (Sp	pecify)
Performance During Classes and the Final Exam	2. Interactive 3. Exercise 4. Consultate 10. Seminar Paper / 1. Written per 2. Oral present 11. Midterm Exam (1. 20 points Final Exam 4. Written / Oral Exam: 12. 30 points	attendance – 1 vity – 5 points attendance – tions – 5 poin Essay / Case part – 15 point entation – 10 (Colloquium):	5 points ts Study: points			% % % % %
	TOTAL:	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • •	100%	' /o
Compulsory Literature (available	Title		Number o Copies in		Availability through	Other

Student Obligations

in the library and

Supplementary

Other (at the proposer's

Literature

discretion)

through other media)

Biostatistics: A Foundation for Analysis in the Health Sciences — Wayne W. Daniel & Chad L. Cross

UISBAX Materials

Library

Other

Media

			CAL CHEMISTRY AND BIOCHEMISTRY				
	Undergraduate						
STUDY	1.6.3.Z001 Year of Study I						
00022000000		Year of Study I					
	prof.dr.sc Jasmin	Credit Value (ECTS)	6				
Histiactor(s)	Šutković						
0	Ajdina Karić, v. ass	S.					
Assistants							
		COURSE DESCRIPT					
OBJECTIVES	composition of living occurring within the Special attention is healthy and disease vital processes.	ng organisms, to study the funda e body, as well as the factors reg given to the content, structure, a	students to the chemical and biochemical amental biochemical phenomena and processes gulating these processes at the molecular level. and role of the most significant compounds in both ey metabolic pathways and cycles that coordinate all				
Prerequisites and	No Prerequisites						
Entry							
Competencies							
Expected	Upon completion o	f the course Fundamentals of M	Tedical Chemistry and Biochemistry and after				
Learning		he student will be able to:					
Outcomes at the	13. Demonstra	te knowledge of the Periodic Ta	ble of Elements, chemical bonding, and molecular				
Course (10	structure						
outcomes)		ganic compounds according to f					
Comman	 Differentiate between the main classes of organic compounds Understand the structural characteristics, reactivity, and properties of biomolecules (carbohydrates, proteins, lipids, and nucleic acids) Explain the fundamental principles of protein structure and the impact of their conformation biological function Explain the basics of enzyme kinetics and the inhibition of enzymatic activity Recognize the importance of carbohydrate and lipid structures in living organisms Describe the basic concepts and principles of metabolism Describe the structure and organization of biological membranes, and understand the structure and biological function of nucleic acids Identify and describe molecular, biochemical, and cellular mechanisms essential for maintaining homeostasis in the organism 						
		· ·	eriodic Table of Elements – Basic chemical				
Content			nism (intermolecular bonds, buffers, redox				
Detailed	reactions)		D 0 1 1100				
0			Types of solutions, diffusion, osmosis, dialysis,				
Teaching	-	1-3 hours					
Hours			nd classification of organic molecules (alcohols,				
	•	, ketones, carboxylic acids, ar					
		Salts – Macro- and microelem	nents – 3 hours				
	 pH and A 	cid-Base Balance – 3 hours					
	 Carbohyo 	Irates – Structure, role, and c	lassification – 3 hours				
	• Lipids – S	Structure, role, and classificati	ion – 3 hours				
	_	cids, Peptides, and Proteins					
		and Coenzymes – Role and					

	• Metabolism of Carbohydrates, Fats, and Proteins – Vitamins and hormones – <i>4 hours</i>					
Types	In class		Consultation	ns		
of	Online					
Instruc						
tion						
Student						
Obligations		1	_			
Student	Class	0,9	Research	-	Experimenal Work	-
Workload	Attendance					
Monitoring	Practical Work	_	Report	_	Consultations	
(enter the share	Tractical Work	-	Keport	-	Consultations	-
in ECTS credits						
for each activity						
so that the total	Essay		Seminar	1,5	Other (Specify)	-
number of			Paper			
ECTS credits						
corresponds to	Midterm Exam	1,8	Oral	_	Other (Specify)	
the credit value	Milateriii Exaiii	1,0	Exam	-	Other (Specify)	-
of the course)			Lxaiii			
	Written Exam	1,8	Project	-	Other (Specify)	-
Assessment and	Assessment and Eval	uation of Stu	dent Performan	ce		
Evaluation of	Pre-exam Activities 23. Class Attender	lanca:				
Student			nce – 5 points		5%	
Performance	2. Exe	ercise attenda	nce - 5 points.		5%	
During Classes			k / Interactivity	– 5 points	5%	
and the Final	24. Seminar Par		5 points		15%	
Exam					13%	
	25. Midterm Ex		1			
		-	•••••		5%	
	26. Midterm Ex				15%	
	Final Exam	рошко	•••••		13 /0	
	5. Written / Oral Exa	5. Written / Oral Exam:				
	27. 30 points					
	TOTAL: 100%					
Compulsory	Title			Number	Availability through Other	Other
Literature				of Copies	Media	
(available in the				in the		
library and	Library					
through other		Principles of Medical Biochemistry — Gerhard Meisenberg & William H. Simmons				
media)	https://repository.stikesrspadgs.ac.id/69/1/Principles%20of%20Medical%20Biochemistry%20Meisenb					
	erg%20Simmons-6					
Supplementary	UISBAX Materials					
Literature						

Other (at the	-	-	-	-	-	-
proposer's						
discretion)						

COURSE TITLE	FUN	NDAMENTALS	OF BIOLOGY WITH ECOLOGY				
LEVEL OF STUDY	Undergraduate						
Course Code	1.6.18.Z001	Year of Study	I				
	μ	Credit Value (ECTS)	6				
Teaching Assistants							
		COURS	SE DESCRIPTION				
COURSE OBJECTIVES	•		als of biology, human biology and genetics, anthropology, and human position of humans within the living world and the ecosystem.				
Prerequisites and Entry Competencies	No Prerequisites						
Expected Learning Outcomes at the Course (10 outcomes)	 Demonstrate knowledge of the fundamental biological laws Understand the basics of cytology Acquire basic knowledge of the function and structure of nucleic acids and chromosomes Acquire fundamental knowledge of genes, the genome, phenotype, genotype, and mutations Demonstrate understanding of the basics of human genetics Acquire fundamental knowledge of anthropology Understand the nature and factors of human biological variability Demonstrate knowledge of anthropometry Understand general ecological principles of environmental protection Identify the causes of environmental pollution 						
Course Content Detailed According to Teaching Hours	 Introduction; The Cell and Basics of Cytology Function and Structure of Nucleic Acids; Chromosomes Genes, Genome, Genotype, Phenotype, Mutations Fundamentals of Anthropology (forensic anthropology, socio-anthropology) Nature and Factors of Human Biological Variability – Types, levels, factors of variability, anthroposcopy, anthropometry, descriptive and inferential statistics Human Genetics The Human Body – Mass, height, body surface area, body shapes, index measures, constitution, growth factors, personality traits General Ecology – Basic environmental sanitation issues Causes and Effects of Environmental Pollution – Water, soil, air, food; toxins in agriculture, industry, and households; additives 						

	• Acute and (Chronic Ef	fect	s of Environmental Pollution on Health; Impact of Nois	e
Types of Instru ction	In class Online	Consultatio	ons		
Student Obligations		<u>'</u>			
Student Workload Monitoring	Class Attend ance	Researc h		Experimenal Work	1.2
(enter the share in ECTS credits for each	Practical Work	Report		Consultations	
activity so that the total number of ECTS credits	Essay	Semi nar Paper	1.2	Other (Specify)	
corresponds to the credit value of the course)	Midterm 1. 8 Written Exam 1.	Oral Exam Project		Other (Specify) Other (Specify)	
Evaluation of	8 Assessment and Eval Pre-exam Activities	uation of Stu	ıden		
Student Performance During Classes and the Final Exam	2. Exerc 3. Cont 29. Seminar Pape 1. Writt	ore attendand cise attendar inuous work er: een part – 15 presentation	nce – (/ Int (poir (– 10	5 points	
	Final Exam 4. Written / Oral Exa 31. 30 points	m: 			
Compulsory Literature (available in the library and	Title	Number of Copin the Librar	ies	Availability through Other Media Oth	er

through other	• Fundamentals of
media)	Ecology and
,	Environment (3rd https://www.researchgate.net/publication/355381814_Fundamentals_of_Ecology_and_En
	Edition) — <u>vironment_3e?utm_source=chatgpt.com</u>
	Pranav Kumar &
	Usha Mina
Supplementary	 Marjanović D, Primorac D, Dogan S. 2018. Forensic Genetics: Theory and Application, International Burch
Literature	University, Sarajevo, BiH
Other (at the	
proposer's	
discretion)	

COLIDGE TITLE				
COURSE TITLE		MICI	ROBIOLOGY	
		MICE	CODIOLOGI	
LEVEL OF STUDY	Undergradu	ate		
Course Code	3.2.30.Z00		of Study	I
	1			
Course Instructor(s)	prof. dr. sc	Cred	it Value (ECTS)	5
	Amir			
	Ibrahimagić			
Teaching Assistants				NON.
		1	COURSE DESCRIPT	AION
COLIDGE	Introduction to	tho to	mas characteristics and	pathogenic effects of microorganisms on the human
COURSE OBJECTIVES				manifestations, prevention, and the control of disease
ODJECTIVES	transmission.	unii o	i understanding emineur	maintestations, prevention, and the control of disease
Prerequisites and				
Entry Competencies	No Prerequisit	es		
Expected Learning	1 1		f the course, students w	
Outcomes at the			C	nition and division of microbiology and
Course (10	_			oorganisms, their distribution in nature, and the
outcomes)			obiota	
			<u> </u>	eterial infections (including vaccines) and the
		_	ponse to bacterial infec	
	_	re kno	owledge about hospital-	acquired infections, MRSA, and antibacterial
	drugs		-4 41 - 1	din a comunitar for a materia
			-	eting samples for analysis
			ng methods for bacteria	n on bacteriological/mycological media and
				using appropriate techniques
	_	_		or serological identification of microorganisms
			e knowledge of fungi a	
			e knowledge of viruses	
			e knowledge of parasite	_
Course Content			-3 hours	o un infectious agents
Detailed				ology and Parasitology – 3 hours
According to			on of Microorganisms –	= -
Teaching Hours			and Human Microflor	
				ctious Agents; Vaccination – 3 hours
			•	gical Reactions – 3 hours
		_	y: Infectious Agents – 3	-
		v.	used by Fungi – 3 hou	
			fectious Agents – 3 ho	
			and Diseases Caused	
Types of	In class		Consultations	
Instructio	Online			
n				

Student Obligations						
		0,7				
Student Workload	Class	Experimental Work				
Monitoring	Attendanc	5	h			
(enter the share in	e Douglation		D4		Committee the second	
ECTS credits for each activity so	Practical Work	-	Report	-	Consultations	-
that the total						
number of ECTS	Essay		Seminar	1,25	Other (Specify)	-
credits corresponds	B # 14	1.5	Paper		0.1 (0.16)	
to the credit value	Midterm Exam	1,5	Oral Exam	-	Other (Specify)	-
of the course)	Exam		Exam			
	Written	1,5	Project	-	Other (Specify)	-
	Exam	L				
Assessment and	Assessment ar Pre-exam Acti		luation of Stu	dent Perform	mance	
Evaluation of	32. Class		ance.			
Student Performance				e – 5 points	5%	
During Classes and					s5%	
the Final Exam	3.			/ Interactivi	ty – 5 points 5%	
	33. Semin	•		nainta	150/	
	1.					
	34. Midte		am (Colloqui)		10/0	
	1.	30 p	oints		30%	
	Final Exam	1.5				
	4. Written / On				30%	
					100%	
Compulsory	Title			Numbe	Availability through Other Media	Othe
Literature (available				r of		r
in the library and through other media)				Copies		
un ough other media)				in the		
	Microbiology	On	on Stoy	Library		
	Microbiology	— Орс	HStax		https://openstax.org/details/books/microbiolog	-
		Y				
Supplementers						
Supplementary Literature						
Other (at the	_	-	1_	_	-	_
proposer's						
discretion)						

COURSE TITLE								
	GERIATRICS AND CARE OF THE ELDERLY							
LEVEL OF STUDY	Undergraduate							
Course Code	3.2.26.Z001	Year of Study	III					
Course Instructor(s)	Prof.dr.sc. Amra Macić Džanković	Credit Value (ECTS)	5					
Teaching Assistants								
		COURSE DESCRIPTION						
COURSE OBJECTIVES	individuals; educating old frailty in old age; develop	er adults on the importance of ing an empathetic approach an	n the physical and mental health of elderly maintaining health to prevent illness and d attitude toward the elderly; and lults to prevent social isolation.					
Prerequisites and Entry Competencies	Anatomy, Physiology, and	d Internal Medicine						
Expected Learning	 The significance of economic status of the importance of the consequences capacity of health. The importance of communicable distribution. Communication of disorientation. Methods of recognition and of the communication and of the communication. Methods of recognition and of the communication. Institutional care provided in them. 	students will be familiar with: of demographic transition, femoral the population in the Federal for the population with a focus of the country's economic dot and social protection funds of preventing risk factors in the seases and their complications kills with elderly individuals, on the care and treatment of painting pain, its causes, preventing a for care and treatment of painting and managing fecal and management of acute emergency and the elderly, alter the elderly, including types	evelopment and their reflection on the development of widespread non- especially in cases of confusion or tion, measurement of intensity, methods of					
Course Content Detailed According to Teaching Hours	Criteria for DefinImmobility in EldGeriatric Changes	anges in the Population of BiH ing the Elderly Population -3 derly Persons -3 hours	hours ealth of Older Adults – 3 hours					

	Falls in Elderly Persons – 3 hours Decubitus Ulcers: Development, Care, Treatment, and Prevention – 3 hours Mental Health of Elderly Persons – 3 hours Dementia and Related Conditions – 3 hours Institutional Care for the Elderly – 3 hours								
Types of	n class Consultations								
Instruction	online								
Student Obligations									
Student Workload Monitoring (enter the share in	Class Attendance	0,75	Research		Experimenal Work				
ECTS credits for each activity so that the total number of ECTS credits corresponds to	Practical Work		Report		Consultations				
the credit value of the course)	Essay		Seminar Paper	1,25	Other (Specify)				
	Midterm Exam	1,5	Oral Exam		Other (Specify)				
	Written Exam	1,5	Project		Other (Specify)				
Evaluation of Student Performance During Classes and the Final Exam	2. Exercise a 3. Continuou Seminar Paper: 1. Written pa 2. Oral prese Midterm Exam (C 1. 30 points. Final Exam 4. Written / Oral Exam: 30 points	tendance ttendance is work / art – 15 p ntation - olloquiu	e – 5 points The e – 5 points Interactivity – points 10 points m):	5 poir					
Compulsory Literature (available in the library	Title	Number Library	er of Copies in t v	he	Availability through Other Media	Other			
and through other media)	Advanced Age Geriatric Care: A Comprehensive Guide — Nages Nagaratnam, Kujan Nagaratnam, Gary Cheuk	Librat			https://link.springer.com/book/10.1007/ 978-3-319-96998- 5?utm_source=chatgpt.com	-			
Supplementary Literature	UISBAX Materials	•							
Other (at the proposer's discretion)	/	/	/	/	,	/			

COURSE TITLE		EMERGENCY MEDICIN	NE AND RESUSCITATION
LEVEL OF STUDY	Undergradu	ate	
Course Code	3.2.8.Z001	Year of Study	III
Course Instructor(s)	prof. dr. sc.	Credit Value (ECTS)	6
	Amra Macić		
	Džanković		
Teaching Assistants			
		COURCE DESCRIP	TION
COURSE		COURSE DESCRIP	TION
OBJECTIVES	Introduction to	n medical emergency condition	s, with a focus on the role of medical technicians in
ODJECTIVES		nd emergency medical care.	is, with a focus of the fole of medical technicians in
Prerequisites and			
Entry Competencies	Anatomy, Phy	siology, Pathology	
Evmosted Learning		1	1
Expected Learning Outcomes at the	_	ire general concepts of emer	-
Course (10		gnize death and the signs of	
outcomes)			nconscious states, and resuscitation of circulation
outcomes)		espiration	and hamastasis in amaganay madiaina
		ling autotransfusion	and hemostasis in emergency medicine,
		_	isonings (gases, addictive substances, alcohol,
		, chemicals, pesticides, food	<u> </u>
	_	· • • • • • • • • • • • • • • • • • • •	(open, closed, polytrauma, chemical, physical,
		anical)	(open, crosed, porytradina, enemical, physical,
		rstand the basics of poisonor	us snake and insect hites
		rstand the basics of foreign l	
			matic emergency conditions (by organ systems),
		ling acute dehydration	(-,,,,,,,,,,
		•	nergency medical services in peacetime, wartime,
		al disasters, and other mass-	<u> </u>
Course Content			f Emergency Medicine – 3 hours
Detailed	• Death	and Signs of Death -3 hour	urs
According to	• Shock	x, Unconscious States, Circu	latory and Respiratory Resuscitation – 3 hours
Teaching Hours	• Bleed	ing and Hemostasis in Emer	rgency Medicine; Autotransfusion – 3 hours
		_	ve substances, alcohol, drugs, chemicals,
	pestio	eides, food) -3 hours	
	• Injuri	es (<mark>open, closed, polytraun</mark>	na, chemical, physical, mechanical) – 3 hours
	• Bites	of Poisonous Snakes and In	sects – 3 hours
	• Forei	gn Bodies – 3 hours	
	• Non-t	raumatic Emergency Condi	tions (by organ systems) including acute
	dehy	dration – 3 hours	
	_	<u> </u>	ces in peacetime, wartime, natural disasters,
	and o	ther mass-casualty events	- 3 hours

Types of Instructio n	In class Online Consultations					
Student Obligations						
Student Workload Monitoring (enter the share in	Class Attendanc e	0, 9	Researc h	-	Experimenal Work	-
ECTS credits for each activity so that the total	Practical Work	-	Report	-	Consultations	-
number of ECTS credits corresponds to the credit value of the course)	Essay	-	Seminar Paper	1,5	Other (Specify)	-
	Midterm Exam	1, 8	Oral Exam	-	Other (Specify)	-
	Written Exam	1, 8	Project	-	Other (Specify)	-
Assessment and Evaluation of Student Performance During Classes and the Final Exam	2. 3. 2. Semin 1. 2. 3. Midter 1. Final Exam 4. Written / Or 4. 30 poi TOTAL:	vities Atten Lec Exe Con ar Pa Wr Ora rm Ex 30 j	dance: cture attendance: cture	ace – 5 point nce – 5 point k / Interactiv 5 points n – 10 points ium):		
Compulsory Literature (available in the library and through other media)	Title			Numbe r of Copies in the Library	Availability through Other Media	Othe r
	Practical Eme Resuscitation of Care — Kaush Lee	and C	ritical		https://www.cambridge.org/core/books/practical -emergency-resuscitation-and-critical- care/4E7C4393773477BDA0034935269B4ED5	

Supplementary Literature	/				
Other (at the proposer's discretion)	-		-	•	-

	1		
COURSE			
TITLE	INTERNAL M	EDICINE AND CARE OF	INTERNAL MEDICINE PATIENTS
LEVEL OF	Undergraduate		
STUDY			
Course Code		Year of Study	
	3.2.27.Z001		II
Course	prof. dr. sc.	Credit Value (ECTS)	
Instructor(s)	Amra Macić		7
. ,	Džanković		
Teaching	Mr. Alma Karaj k	0	
Assistants			
		COURSE	
		DESCRIPTION	
COURSE			
OBJECTIVES			ignostics, therapy, nursing care, and prevention of diseases
			diovascular, respiratory, gastrointestinal, urinary,
	hematopoietic, en	docrine, and locomotor systems	
Prerequisites			
and Entry	Prerequisites: Ana	atomy and Physiology	
Competencies			
Expected	Acquire the second	he fundamentals of internal med	licine and medical history taking
Learning	 Acquire the second of the secon	he fundamentals of internal prop	paedeutics
Outcomes at the	 Understar 	nd the most common signs and s	symptoms of diseases affecting different organ systems
Course (10	 Understar 	nd the symptomatology of cardio	ovascular diseases
outcomes)	 Understar 	nd the symptomatology of respin	ratory diseases
	 Understar 	nd the symptomatology of gastro	ointestinal tract diseases
	 Understar 	nd the symptomatology of kidne	y and urinary tract diseases
	 Understar 	nd the symptomatology of hema	topoietic system diseases
	 Understar 	nd the symptomatology of endo	crine diseases
	 Understar 	nd the symptomatology of locon	notor system diseases
			al History (Anamnesis) – 3 hours
Course		Propaedeutics – 3 hours	
Content		, , ,	Diseases of Organ Systems – 3 hours
Detailed		scular Diseases – 3 hours	
According to	_	ry Diseases – 3 hours	
Teaching to		of the Gastrointestinal Tract -3	
Hours		of the Kidneys and Urinary Trac	
110015		of the Hematopoietic System – .	3 hours
		e Diseases – 3 hours	
		of the Locomotor System $-3 ha$	purs
Types	In class	Consultations	
of	Online		
Instruc			
tion			
Student			

Obligations								
Student	Class	1,05	Researc		Experimenal Work			
Workload	Attenda		h					
Monitoring	nce							
(enter the share	Practical Work		Report		Consultations			
in ECTS credits	Tructicul Work		порого					
for each activity	Essay		Semin	1,75	Other (Specify)			
so that the total			ar	,	other (speeny)			
number of			Paper					
ECTS credits	Midterm Exam	2.1	Oral		Other (Specify)			
corresponds to	Wildtel III Exam	2,1	Exam		other (Speeny)			
the credit value	XX :44 E	2.1			041 - (6 16)			
of the course)	Written Exam	2,1	Project		Other (Specify)			
oj ine course)								
Assessment and	Pre-exam Activitie							
Evaluation of	• Class Atter		•					
				5 points	5%			
Student								
Performance					5 points 5%			
During Classes	Seminar Page		.5 ,, 0111, 111	00100017109	C P			
and the Final		-	ırt – 20 poir	nts	15%			
Exam		•	•		10%			
	• Midterm E	•		•				
					30%			
	1. 30 points							
	4. Written / Oral F	Exam:						
	4. Written / Oral F				30%			
	4. Written / Oral E 30 points				30% 100%			
Compulsory	4. Written / Oral F 30 points TOTAL:	•••••	•••••	•••••	100%	Othon		
Compulsory	4. Written / Oral E 30 points	Num	ber of Co	•••••		Other		
Literature	4. Written / Oral F 30 points TOTAL: Title	Num	•••••	•••••	Availability through Other Media	Other		
Literature (available in the	4. Written / Oral F 30 points TOTAL: Title Harrison's	Num	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other -		
Literature (available in the library and	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of	Num	ber of Co	•••••	Availability through Other Media	Other -		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine	Num	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine — redakcija:	Num	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other -		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci,	Num	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other -		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper,	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine — redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser,	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper,	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine — redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser,	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et al.	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other media)	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et al.	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other media) Supplementary	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et al.	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other media) Supplementary Literature Other (at the	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et al.	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other media) Supplementary Literature Other (at the proposer's	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et al.	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		
Literature (available in the library and through other media) Supplementary Literature Other (at the	4. Written / Oral F 30 points TOTAL: Title Harrison's Principles of Internal Medicine redakcija: Anthony S. Fauci, Dennis L. Kasper, Stephen L. Hauser, J. Larry Jameson, Joseph Loscalzo et al.	Num the L	ber of Co	•••••	Availability through Other Media https://accessmedicine.mhmedical.com/book.	Other		

COURSE TITLE	INTRODUCTION TO PHYSIOTHERAPY						
LEVEL OF STUDY	Undergraduate						
Course Code	3.6.2.Z001	Year of Study	II				
Course Instructor(s)	Doc.dr.sc. Tanja Bavrka Bošnjak	Credit Value (ECTS)	7				
Teaching Assistants			·				
		COURSE CRIPTION					
COURSE OBJECTIVES	The course introduces studen It familiarizes them with fund physiotherapy profession, the evaluation, planning and orga	tts to the theoretical, research, and produced the theoretical, research, and produced the transfer of the tra	n physiotherapy, the assessment, intervention and rk, common clinical problems				
Prerequisites and Entry Competencies	Anatomy	ar standards, and research in the field	Tor physiotherapy.				
Expected Learning Outcomes at the Course (10 outcomes)	 (history, definitions practice) Gain knowledge need understand profess Classification of Funderstand diagnoral assessment Acquire knowledge understand diagnoral assessment Acquire the basics physiotherapy evaluated understand the funderstand the fundevelopment of refundevelopment of refunderstand the fundevelopment of refundations and organize phealthcare settings Acquire the basics physiotherapy practice physiotherapy Acquire the fundamental fundament	damentals of medical rehabilitation plans, organization of physiotherapy at different levels, of professional rehabilitation, applice, and address the most commentals of research in physiotheral	the scope of physiotherapy of physiotherapists ICF (International in) e and conduct physiotherapy by interventions, and on (goals, tasks, work) including teamwork in ply standards in on clinical problems in				
Course Content Detailed According to Teaching Hours	 concepts, classifica Physiotherapist E ICF (Internationa Physical Prophyla 	l Classification of Functioning,	practice Disability and Health)				

Types of Instruction	organization of Planning and teamwork	bilitation — (f work Organizing Rehabilitatio al problems	Goals, tasks, Physiothera n – Standard in physiothera	developmen npy – Levels ls in physioth rapy	nd Evaluation t of rehabilitation p of organization an nerapy practice and	d	
Student Obligations							
Student Workload Monitoring	Class Attendance	1,05	Research	-	Experimenal Work	-	
(enter the share in ECTS credits for each activity so that the total number of ECTS credits	Practical Work	-	Report	-	Consultations	-	
corresponds to the credit value of the course)	Essay	-	Seminar Paper	1,75	Other (Specify)	_	
	Midterm Exam	2,1	Oral Exa	m -	Other (Specify)	-	
	Written Exam	2,1	Project	_	Other (Specify)	-	
Assessment and Evaluation of Student Performance During Classes and the Final Exam	Assessment and Evaluation of Student Performance Pre-exam Activities Class Attendance: Lecture attendance – 5 points						
Compulsory Literature (available in the library and through other media)	TOTAL: Title		Numl	ber of es in the	Availability through Other Media	Other	

	Cifu DX. Braddom's p rehabilitation. Elsevier			DX Cifu - 20 books.google.		
Supplementary	UISBAX Materials		·			·
Literature						
Other (at the proposer's	-	-	-	-	-	-
discretion)						

COURSE TITLE	FUNDAMENTALS	OF PHYSICA	AL MEDICIN	E AND R	EHABILITATI(ON		
LEVEL OF STUDY	I CIKLUS							
Course Code	3.2.32.Z001	Year of	f Study		II			
Course Instructor(s)	Prof.dr.sc. Zoran Baji	n Credit	Value (ECTS)		7			
Teaching Assistants		<u> </u>			<u> </u>			
		COURSE DESCRIPTION						
COURSE OBJECTIVES	Students are required to	tudents are required to acquire knowledge about the fundamental characteristics of individual nysical modalities and to apply them in everyday practice.						
Prerequisites and Entry Competencies	Anatomy							
Expected Learning Outcomes at the Course (10 outcomes) Course Content	 Understand the Acquire the bay Understand the Acquire know Acquire know Acquire know Acquire know Acquire introd 	Acquire the fundamental principles of physical medicine and rehabilitation Understand the basic classification of physical medicine Acquire the basics of patient rehabilitation Understand the fundamentals of physical stimuli in therapy Acquire knowledge of thermotherapy principles Acquire knowledge of hydrotherapy principles Acquire knowledge of heliotherapy principles Acquire knowledge of electrotherapy principles Acquire introductory knowledge of kinesiotherapy Develop basic kinesiotherapy skills						
Detailed According to Teaching Hours	 Introduction Fields and Branches of Physical Medicine Rehabilitation Physical Stimuli Thermotherapy Hydrotherapy Heliotherapy Electrotherapy Kinesiotherapy – Introduction Kinesiotherapy – Basic Skills 							
Types of Instruction	In class Online		Consultations					
Student Obligations								
Student Workload Monitoring (enter the share in	Class 1 Attendanc e	1,05	Research	-	Experimenal Work	-		

ECTS credits for each activity so that the total	Practical Work	-	Report	-	Consultations	-
number of ECTS credits corresponds to the credit value of the course)	Essay	-	Seminar Paper	1,75	Other (Specify)	-
	Midterm Exam	2,1	Oral Exam		Other (Specify)	
	Written Exam	2,1	Project		Other (Specify))
Evaluation of Student Performance During Classes and the Final Exam	2. Exerc 3. Conting Seminar Pape 1. Writte 2. Oral p Midterm Exar 1. 30 po Final Exam 4. Written / Oral Exan	nce: re attendance – 5 ise attendance – nuous work / Int r: en part – 15 poin presentation – 10 n (Colloquium): ints	5 points 5 points eractivity – 5 po ts points	pints		
	Title Essentials of Physical Rehabilitation, 4th Ed Frontera, Julie K. Silv Jr.	ition — Walter 1		in the	https://www.elsevierhealth.com/essentials-of-physical-medicine-and-rehabilitation-9780323549479.html	
Supplementary Literature	UISBAX Materials		,			
Other (at the proposer's discretion)	-	-	-	-	-	-

COURSE TITLE	PHYSIOTH	ERAPY IN SURGERY AN	D TRAUMATOLOGY
LEVEL OF STUDY	Undergraduate		
Course Code	3.6.2.Z002	Year of Study	II
Course Instructor(s)	doc. dr. sc. Tanja Bavrka Bošnjak	Credit Value (ECTS)	6
Teaching Assistants	,		•
		OURSE	
COLIDGE		CRIPTION	c: · ·
COURSE OBJECTIVES	Introduction to surgical dis	eases and the consequences of	f injuries.
Prerequisites and	Anatomy and Pathology		
Entry Competencies			
7			
Expected Learning Outcomes at the Course		and importance of physiatry	
(10 outcomes)	Tippiy the subject of	kinesiotherapy in the preoper	*
(10 outcomes)	11 7 1 7	y in the postoperative period	
	interventions	procedures in early and late	renabilitation after surgical
		nentals of traumatology of the	Locomotor system
	_	ics of alloarthroplasty and its	•
		entals of neurosurgery and p	
	-	nentals of cardiac surgery and	•
	_	nentals of visceral surgery and	= -
	_		ical and physiatric approaches
	•	S	1 7 11
Course Content	Detailed Course Content (b	y Topics and Hours)	
Detailed According to	 Role and Important 	te of Physiatry in Surgery – 3	hours
Teaching Hours		erapy in the Preoperative Per	
		siotherapy in the Postoperativ	
		sical Procedures in Early and	Late Rehabilitation After
	Surgery – 3 hours	I	
		e Locomotor System – 3 hours	rs
	1 7	d Physiatry – 3 hours	
	 Neurosurgery and I Cardiac Surgery an 	d Physiatry – 3 hours	
		d Physiatry – 3 hours	
	 Viscellar Surgery and Miscellaneous Topi 		
Types of	In class	Consultations	
Instruction	Online		
Student Obligations			

Student Workload Monitoring	Class Attendance	0,9	Research		Experimena Work	l
(enter the share in ECTS credits for each activity so that the total	Practical Work		Report		Consultation	ns
number of ECTS credits corresponds to the credit value of the course)	Essay		Seminar Paper	1,5	Other (Specify)	
	Midterm Exam	1,8	Oral Exam		Other (Specify)	
	Written Exam	1,8	Project		Other (Spec	ify)
Assessment and Evaluation of Student Performance During Classes and the Final Exam	2. Exercion 2. Contion 3. Contion 3. Contion 5. Contion 5. Continuar Paper 1. Writter 2. Oral 5. Midterm Examus 1. 30 por Final Examus 4. Written / Oral Examus 4. Written / Oral Examus 5. Continuar Paper 1. Continuar Paper	ance: are attendance – 5 are attendance – nuous work / Inter: en part – 15 poin presentation – 10 m (Colloquium): ints	5 points 5 points eractivity – 5 points points	ints		
Compulsory Literature (available in the library and through other media)	Title		Number of Co the Library	opies in	Availability through Other Media	Other
	Springer:New York. 2. I Posterior cruciate ligam Springer: New Y		-		-	-
	Blom. A. W. And other Solomon*s System of O Trauma. Thent Edition. Group, LLC. Boca Rato York. 2018.	ortopaedics and Taylor & Francis	-		-	-
Supplementary Literature	<u> </u>					
Other (at the proposer's discretion)	/	/	/	/	/	/

COURSE TITLE	BALNEOLOGY					
LEVEL OF STUDY	Undergraduate					
Course Code	3.6.2.Z003	Year of Study	II			
Course Instructor(s)	Doc.dr.sc. Tanja Bavrka Bošnjak	Credit Value (ECTS)	6			
Teaching Assistants						
		OURSE CRIPTION				
COURSE OBJECTIVES	Introducing students to natura	al healing agents. The course provide ects, methods of preparation and app	•			
Prerequisites and Entry Competencies	Anatomy					
Expected Learning Outcomes at the Course (10 outcomes)	 agents Understand peloids properties, balneold application techniques Demonstrate knowledge composition, classifur reactions, indications Acquire knowledge radon, ozone Understand the basis meteorophysiology and conditions Acquire knowledge classification, climate understand the basis altitude therapy, that understand biologic 	Understand peloids, including classification, chemical composition and physical properties, balneological characteristics, biological effects, preparation and application techniques, indications and contraindications, and artificial peloids Demonstrate knowledge of mineral waters: physical properties and chemical composition, classification, physiological effects, therapeutic use, balneological reactions, indications, and contraindications Acquire knowledge of therapeutic gases: carbon dioxide, hydrogen sulfide, radon, ozone Understand the basics of medical meteorology: meteorology, meteorophysiology, meteoropathology, and meteorotropism of certain diseases				
Course Content Detailed According to Teaching Hours	 Peloids: Classificat balneological chara techniques, indicati Mineral Waters: F 	c concepts, definitions, and historion, chemical composition and photeristics, biological effects, preparents and contraindications, artificionly properties and chemical cas, therapeutic application, balneous traindications	nysical properties, aration and application al peloids composition, classification,			

Types of Instruction	 Medical Meter meteorotropism Medical Climatophysiol Climatotherapthalassotherapy 	orology: Meten of specific detology: Climatopoy; Aerotheray, psammotheraythms; Balnees Waters mand Welln	eorology, meteoriseases and concatic factors, clinathology by, heliotherapy capy, speleotherapy coclimatic Locat	rophysion ditions nate class , high-alt apy		ology,
Student Obligations						
Student Workload Monitoring	Class Attendance	0,9	Research	-	Experimenal Work	-
(enter the share in ECTS credits for each	Practical Work	-	Report	-	Consultations	-
activity so that the total number of ECTS credits	Essay	-	Seminar Paper	1,5	Other (Specify)	-
corresponds to the credit value of the course)	Midterm Exam	1,8	Oral Exam	-	Other (Specify)	-
	Written Exam	1,8	Project	1	Other (Specify)	-
Assessment and Evaluation of Student Performance During Classes and the Final Exam	Assessment and Evaluation of Student Performance Pre-exam Activities Class Attendance: 1. Lecture attendance – 5 points					
Compulsory Literature (available in the library and through other media)	TOTAL: Title		Number o Copies in Library	f	Availability through Other Media	Other
	Fialka - Moser V. et al. I Balneotherapie. Pflaum,	•	ınd -		-	-
Supplementary Literature	Gillert O. Hydrotherapie https://www.amazon.de/					

	Physiotherapie/dp/3790505277					
Other (at the proposer's discretion)	-	-	-	-	-	-

COURSE TITLE	DISINFECTION, DISINSECTION, AND DERATIZATION					
Year of Study	Year of Study					
Course Code	3.3.5.Z002	Year of Study	II			
Course Instructor(s)	doc.dr.sc. Emilija Hrapović	Credit Value (ECTS)	7			
Teaching Assistants						
		OURSE CRIPTION				
COURSE OBJECTIVES		biology of rodents and insec	ts, as well as to the protected			
Prerequisites and Entry Competencies	Prerequisite: Fundamenta	ls of Biology with Ecology				
Expected Learning Outcomes at the Course (10 outcomes)	 Introduction Dynamics of Sterili Disinfection: Mech General Introductor Systematics of Rod Morphology and Ph Ecology of Rodents Overview of Protect Herzegovina Methods and Organ 	Dynamics of Sterilization and Disinfection – Method Selection Disinfection: Mechanism of action of disinfectants on microorganisms General Introductory Notes on Rodents and Insects Systematics of Rodents and Insects Morphology and Physiology of Rodents and Insects Ecology of Rodents and Insects Overview of Protected, Rare, and Endangered Species in Bosnia and Herzegovina Methods and Organization of Deratization Causes of Population Decline, Implemented Protective Measures, and Measures				
Sadržaj predmeta detaljno razrađen prema satnici nastave:	 Introduction – 2 hours Dynamics of Sterilization and Disinfection – Method Selection – 4 hours Disinfection: Mechanism of Action of Disinfectants on Microorganisms – 3 hours General Introductory Notes on Rodents and Insects – 2 hours Systematics of Rodents and Insects – 4 hours Morphology and Physiology of Rodents and Insects – 3 hours Ecology of Rodents and Insects – 3 hours Overview of Protected, Rare, and Endangered Species in Bosnia and Herzegovina – 3 hours Methods and Organization of Deratization – 3 hours Causes of Population Decline, Implemented Protective Measures, and Recommended Measures – 3 hours 					

Types of Instruction	In class Online		Consultations			
Student Obligations						
Student Workload Monitoring	Class Attendance	1,05	Research		Experimenal Work	
(enter the share in ECTS credits for each activity so that the total number of ECTS credits	Practical Work		Report		Consultations	
corresponds to the credit value of the course)	Essay		Seminar Paper	1,75	Other (Specify)	
	Midterm Exam	2,1	Oral Exam		Other (Specify)	
	Written Exam	2,1	Project		Other (Specify)	
Assessment and Evaluation of Student Performance During Classes and the Final Exam	Assessment and Evaluation of Student Performance Pre-exam Activities Class Attendance: 1. Lecture attendance – 5 points					
Compulsory Literature (available in the library and through other media)	Title		Number of C the Library	Copies in	Availability through Other Media	Other
	Principles of Food Sanita Edition — Norman G. Ma Schilling, Robert B. Grav	arriott, M. Wes	(1)		-	-
Supplementary Literature	/					

Other (at the proposer's	/	/	/	/
discretion)				

COURSE TITLE	MI	CROBIOLOGICAL ANAL	YSIS OF FOOD AND WATER
LEVEL OF STUDY	Undergraduate		
Course Code	3.3.5.Z003	Year of Study	III
Course Instructor(s)	prof. dr. sc.	Credit Value (ECTS)	6
Course Instructor(s)	Amir	credit value (EC15)	
	Ibrahimagić		
Teaching Assistants			
		COURSE DESCRIPTION	
COURSE	Introducing studen		ection, diseases caused by contaminated water,
OBJECTIVES	•		stics of microorganisms in food production
	(fermentation, enz	ymatic activity, preserved food),	the role of microorganisms in the process of
	food spoilage, food	d poisoning, and food quality cor	ntrol in production.
Prerequisites and			
Entry Competencies	Microbiology		
	D 4 11 1 G		
Expected Learning		ourse Content (by Topics)	king Water: Water and sanitation; drinking water
Outcomes at the		trol; wastewater management	king water. Water and samtation, drinking water
Course (10			nanisms of "water-borne" infections
outcomes)	-	0.	Authorities in Food Analysis: Submission and
			g; prioritization of food testing; analytical reporting
			: Food as a medium; ecosystems in food;
			uencing microbial growth; microbial damage; viable
	canned food		eir significance in food microbiology; low-acid
			nicroorganisms of food contamination;
			ng microbiological criteria; definition
			s: Determination of bacteriological cleanliness of
		aces, and containers	
			Methods for examining canned meat sterility;
		on of spoilage causes in canned meat	od Industry Facilities: Monitoring cleanliness of
			n plants and public catering establishments
	* *	• • • • • • • • • • • • • • • • • • • •	nation; causative agents of food poisoning; the role
			orne pathogens, eliminating sources of
			cting food products from microorganisms
			uction: Good Manufacturing Practice (GMP); tandard Sanitation Operating Procedures (SSOP)
	Samtation, S	samtation principles, distinection, 3	tandard Samtation Operating Procedures (SSOF)
Sadržaj predmeta	Microorgan	nisms and food: sources of contamin	ation and microbial spoilage of food – 3 hours
detaljno razrađen		nisms in industrial processes – 3 hou	
prema satnici	Microbiolo	gy of milk and dairy products: paste	eurization, sterilization, fermented dairy products – 3
nastave:	hours		
			ation: salmonellosis, staphylococcal food poisoning,
		xin poisoning – 3 hours are-forming bacteria in food contami	ination = 3 hours
		=	ia, enterohemorrhagic E. coli – 3 hours
		gical control of food – 3 hours	
		icators, HACCP, parasites in food –	- 3 hours
	Microbiolo	gical control of water – 3 hours	
	Diseases ca	used by contaminated water – 3 hou	urs

Types of Instruction	In class Online		Consultation	ons				
Student Obligations								
Student Workload Monitoring (enter the share in	Class Attendance	0,9	Research	-	Experimenal Work	-		
ECTS credits for each activity so that the total number of ECTS credits corresponds to the credit value of the course)	Practical Work	-	Report	-	Consultations	-		
	Essay	-	Seminar Paper	1,5	Other (Specify)	-		
	Midterm Exam	1,8	Oral Exam	-	Other (Specify)	-		
	Written Exam	1,8	Project	-	Other (Specify)	-		
Assessment and Evaluation of Student Performance During Classes and the Final Exam	2. Ex 3. Co 6. Seminar P 1. W 2. Or 7. Midterm E 1. 30 Final Exam 4. Written / Oral E 8. 30 points . TOTAL:	es ndance: ecture attence atte	dance – 5 poindance – 5 poindance – 5 poindance – 15 pointstion – 10 pointoquium):	ntsvity – 5 poin		Other		
(available in the library and through other media)	and through other			of Copies in the Library	Other Media	- Other		
Supplementary	Margarete Mide Silva, Marta H. Tar Valéria C. A. Junque	ori Okazaki, niwaki, Nelia	, Neusely da					
Literature								
Other (at the proposer's discretion)	-	-	-	-	-	-		

COURSE										
TITLE	TOXIC	COLOGY								
LEVEL OF	I In donomo du oto									
STUDY	Undergraduate									
Course Code	3.1.7.Z001	Year of Study	ш							
Course Instructor(s)	doc.dr.sc. Emilija Hrapović	Credit Value (ECTS)	6							
Teaching Assistants										
		COURSE DESCRIPTION								
COURSE OBJECTIVES	Introducing students to their effects, and legal r		ions of toxicology, pathways of poison absorption,							
Prerequisites and Entry Competencies	No Prerequisites									
Expected Learning Outcomes at the Course (10 outcomes)	 Identify types Understand por Recognize typ Provide first at Implement pro Understand the Understand the Apply legal re 	 Identify types and classifications of poisons Understand poison labeling systems Recognize types of poisoning and establish poisoning diagnoses Provide first aid for poisoning by various types of toxic agents Implement protection measures against different types of poisoning Understand the toxicokinetics of various poisons Understand the toxicodynamics of different poisons 								
Course Content Detailed According to Teaching Hours	 Definition of t 3 hours Acute and chro Therapy of port Mechanism of Toxicokinetics biotransformathours Poisoning with Poisoning with deoxynivalence Poisoning with Poisoning with nitrogen dioxident Poisoning with 	onic poisoning, dose-responisoning: nonspecific and specific and transpecific and transpeci	t, transport and distribution of poisons, amics, receptors, and nonspecific effects – 5 ty, arsenic, cadmium, iron – 2 hours aratoxin, zearalenone, fumonisins, trichothecenes, ngicides – 2 hours oxide, sulfur dioxide, hydrocarbons, aldehydes,							

	 Iatrogenic poisoning (salicylates, barbiturates, morphine, depressants, methanol, ethanol) - 1 hour Toxic effects of botulinum toxin, bacterial toxins, and fungi – 1 hour 									
Types of Instruc tion	In class Online		Konsultaci	ije						
Student Obligations										
Student Workload Monitoring	Class Attenda nce	0,9	Researc h	-	Experimenal Work	-				
(enter the share in ECTS credits	Practical Work	-	Report	-	Consultations	-				
for each activity so that the total number of	Essay	-	Semin ar Paper	1,5	Other (Specify)	-				
ECTS credits corresponds to the credit value	Midterm Exam	1,8	Oral Exam	-	Other (Specify)	-				
of the course)	Written Exam	1,8	Project	-	Other (Specify)	-				
Evaluation of Student Performance During Classes and the Final Exam	Pre-exam Activities Class Atten 1. Lec 2. Exe 3. Con Seminar Pa 1. Wri 2. Ora Midterm Ex 1. 30 p Final Exam 4. Written / Oral Ex 30 points	Class Attendance: 1. Lecture attendance − 5 points 5% 2. Exercise attendance − 5 points 5% 3. Continuous work / Interactivity − 5 points 5% Seminar Paper: 1. Written part − 15 points 15% 2. Oral presentation − 10 points 10% Midterm Exam (Colloquium): 30% 1. 30 points 30%								
Compulsory Literature (available in the	Title		Co	mber of pies in the orary	Availability through Other Media	Other				
library and through other media)	A Textbook of Mode 4th Edition — Erne				https://dl.icdst.org/pdfs/files3/b6c63244540e2a42fd 2825fd5c8ea724.pdf					
Supplementary Literature	UISBAX Materials		·							

Other (at the proposer's				
proposer's discretion)				

COURSE TITLE									
		PHY	SICO-CHE	MICAL A	NALYSIS OF FOOD AND WATER				
LEVEL OF STUDY	Undergradu	Undergraduate							
Course Code	3.3.5.Z004		r of Study		III				
Course Instructor(s)	prof.dr.sc.	Cred	lit Value (E	CTS)	5				
	Adna								
	Mesihović								
Teaching Assistants									
COURSE DESCRIPT	TION								
COURSE	_				sico-chemical analyses, contaminants in food and				
OBJECTIVES		ory wo	rk and good	laboratory p	ractice, methods of analysis, and interpretation of				
Duono anisitos and	results. Prerequisite: I		antal Matha	1					
Prerequisites and Entry Competencies	Freiequisite. I	iisti uii	ientai Methot	18					
Expected Learning	• Demo	netrat	a knowledg	a of the im	portance of food for human health				
Outcomes at the			the principl						
Course (10					for food analysis				
outcomes)					od analysis and appropriate sampling				
		odolog		inous or roo	od anarysis and appropriate sampling				
		_		al value of	food products				
					es and conduct field analyses				
					ers and the requirements for safe drinking water				
			_		al, and biological analyses of water				
			_		adiological analyses of water				
					tory accreditation and good laboratory practice				
Course Content					food and health – 3 hours				
Detailed	_		y - 3 hours						
According to		-		hods of foo	d analysis – 3 hours				
Teaching Hours					ysis and sampling methodology – 3 hours				
					tional value of food – 3 hours				
			oling and fie	-					
					king water safety – 3 hours				
	Bacte	riolog	ical, virolog	gical, and b	iological analysis of water – 3 hours				
	• Physi	cal, cl	nemical, and	radiologic	al analysis of water – 3 hours				
	• Labor	ratory	accreditatio	n and good	laboratory practice – 3 hours				
Types of	In class		Consultati	ons					
Instructio	Online								
n									
Student Obligations									
Student Obligations									
Student Workload	Class	0,7	Researc	-	Experimenal Work				
Monitoring	Attendanc	5	h						
			<u> </u>						

(enter the share in ECTS credits for	e								
each activity so that the total number of ECTS credits corresponds	Practical Work	-	Report	-	Consultations	-			
to the credit value of the course)	Essay	-	Seminar Paper	1,25	Other (Specify)	-			
	Midterm Exam	1,5	Oral Exam	-	Other (Specify)	-			
	Written Exam	1,5	Project	-	Other (Specify)	-			
Assessment and Evaluation of Student Performance		ivities Attend Lec	dance: ture attendanc	ce – 5 points	s5%				
During Classes and the Final Exam	 Exercise attendance – 5 points								
	11. Midte 1 Final Exam	2. Oral presentation – 10 points							
Compulsory Literature (available in the library and through other media)	Title			Numbe r of Copies in the Library	,	Othe r			
	Water Analy Guide to Chemical an Water Exami Assurance Fresenius, F Wilhelm Sch	Physic d Mic nation — Karl H	o-Chemical, robiological and Quality Wilhelm	(1)	https://archive.org/details/wateranalysispra0000unse?ut m	-			
Supplementary Literature	• Manu	al of N			ood Safety and Standards/Water, Authority of India, Government of India, 2015	dia,			
Other (at the proposer's discretion)	-	-	-	-	-	-			

COURSE TITLE	WASTE MAN	NAGEMENT							
LEVEL OF STUDY	Undergraduate								
Course Code	3.3.5.Z005	Year of Study	III						
Course Instructor(s)	doc.dr.sc. Emilija Hrapović	Credit Value (ECTS)	6						
Teaching Assistants									
		OURSE CRIPTION							
COURSE OBJECTIVES		ypes of waste, associated health risk	s, and methods of waste						
Prerequisites and Entry Competencies	Prerequisite: Hygiene and H	Prerequisite: Hygiene and Health Ecology							
Expected Learning Outcomes at the Course (10 outcomes)	 classification of was Demonstrate knowle waste management Understand EU and Interpret statistical in Acquire knowledge Demonstrate knowle Understand methods Acquire knowledge 	 waste management Understand EU and BiH legislation related to waste management Interpret statistical indicators and principles of waste management Acquire knowledge of medical waste and medical waste management plans Demonstrate knowledge of hazardous waste management Understand methods of final disposal of solid waste Acquire knowledge of sanitary landfills Understand liquid waste and methods of its disposal 							
Course Content Detailed According to Teaching Hours	 International strategi EU and BiH legislati Statistical indicators Medical waste and n Hazardous waste Methods of final disposanitary landfills Liquid waste and its Epidemiological sign 	d categories of waste; waste classifices and conventions in waste management on in waste management; principles of nedical waste management plans cosal of solid waste disposal nificance of inadequate waste dispos	waste management						
Types of Instruction	In class Online	Consultations							

Student Obligations										
Student Workload Monitoring	Class Attendance	0,9	Researc	ch -		Experimenal - Work				
(enter the share in ECTS credits for each activity so that the total number of ECTS	Practical Work	-	Report	-		Consultations -				
credits corresponds to the credit value of the course)	Essay	-	Semina Paper	r 1,5	;	Other - (Specify)				
	Midterm Exam	1,8	Oral Ex	cam -		Other - (Specify)				
	Written Exam	1,8	Project	-		Other (Specify)				
	Pre-exam Activities Class Attendance: Lecture attended 2. Exercise attended 3. Continuous well as Seminar Paper: Written part — 2. Oral presentate 1. Written part — 2. Oral presentate 1. Midterm Exam (Collod 1. 30 points	ssessment and Evaluation of Student Performance e-exam Activities Class Attendance: 1. Lecture attendance – 5 points								
Compulsory Literature (available in the library	Title	Number Copies i	n the	Availabil through (•	Other				
and through other media)	An Introduction to Waste Management and Circular Economy — Stijn van Ewijk & Julia Stegemann	0.12657/8			am/20.50 6407/1/97	-				
Supplementary Literature	Briški F., (2016), Zaštita ok	oliša, Za	greb							
Other (at the proposer's discretion)	/	/		,	/	/				

COURSE TITLE								
	METHODO:	LOGY OF SA	AMPLING IN SA SUPERVISION	NITARY AND HYGIENE				
TEXEL OF CERTIFIE	TI I							
LEVEL OF STUDY Course Code	Undergraduate 3.3.5.Z007	Year of Stu	dv	IV				
Course Instructor(s)	prof.dr.sc. Adna	Credit Valu		8				
	Mesihović	orear vara	C (2018)					
Teaching Assistants								
	COL	URSE DESCI	RIPTION					
COURSE OBJECTIVES		mmended equip	ment, as well as the	environmental sanitary and hygiene procedures for transporting and				
Prerequisites and Entry Competencies	Prerequisite: Instrum	ental Methods						
Expected Learning Outcomes at the Course (10 outcomes)	factors 2. Understand 3. Perform san maintain pro 4. Apply rules 5. Operate equ 6. Operate equ 7. Operate equ 8. Operate equ 9. Operate equ 9. Operate equ	 Understand principles of sample collection and sampling methodology Perform sampling techniques, transportation, reception of samples, and maintain proper records and documentation Apply rules and principles for sampling solid, liquid, and gaseous materials Operate equipment and apply techniques for sampling drinking water Operate equipment and apply techniques for sampling food 						
Sadržaj predmeta detaljno razrađen prema satnici nastave:	 Introduction to methods of sampling physical, chemical, and biological environmentators – 3 hours Principles of sample collection – Sampling methodology – 3 hours Techniques of sampling, transportation, reception of samples, and record keeping hours Rules and principles for sampling solid, liquid, and gaseous materials – 3 hours Techniques, equipment, and methods for sampling drinking water – 3 hours Techniques, equipment, and methods for sampling food – 3 hours Techniques, equipment, and methods for sampling air – 3 hours Techniques, equipment, and methods for sampling soil – 3 hours Techniques, equipment, and methods for sampling industrial wastewater – 4 hours Preparation of samples for laboratory analysis – 2 hours 							
Types of Instruction	In class Online		Consultations					
Student Obligations								

Student Workload Monitoring	Class Attendance	1,2	Research	-	Experimen al Work	-			
(enter the share in ECTS credits for each activity so that the total number of ECTS	Practical Work	-	Report	-	Consultatio ns	-			
credits corresponds to the credit value of the course)	Essay	-	Seminar Paper	2	Other (Specify)	-			
	Midterm Exam	2,4	Oral Exam	-	Other (Specify)	-			
	Written Exam Assessment and Eval	2,4	Project	-	Other (Specify)	-			
Evaluation of Student Performance During Classes and the Final Exam	Pre-exam Activities 1. Class Attendance: 5% ○ Lecture attendance – 5 points 5% ○ Exercise attendance – 5 points 5% ○ Continuous work / Interactivity – 5 points 5% 2. Seminar Paper: 0 Written part – 15 points 15% ○ Oral presentation – 10 points 10% 3. Midterm Exam (Colloquium): 30 points 30% Final Exam 4. Written / Oral Exam: 30 points 30% TOTAL: 100%								
Compulsory Literature (available in the library and through other media)	Title			Number of Copies in the Library	Availability through Other Media	Other			
	Eugene R.Kennedy, Song et al: Guidel Analytic Method D U.S. Department od Public Health Serv National Institute f health, Division of Engineering Cincinn (Izd. 95-117 iz DHHS NIOSH technical repo	ines for Air Development a health and lavice, CDC a for Occupation of Physical hati, Ohio 452 S publication	Sampling and and Evaluation, numan services, and Prevention, on Safety and Sciences and	(0)	https://books.g oogle.ba/book s?id=lX5fKt2g g_UC&dq=gui delines+for+ai r+sampling+a nd+analytical +method+dev elopment+and +evaluation&l r=&hl=hr&so urce=gbs_navl inks_s	-			

Supplementary	1. UISBAX Materials					
Literature						
Other (at the	-	-	-	-	-	-
proposer's discretion)						

COURSE TITLE	BASIC PRINCIPLES OF DERMATOLOGY OF THE SKIN AND SKIN ADNEXA: PREVENTIVE AND THERAPEUTIC				
LEVEL OF STUDY	Undergraduate				
Course Code	3.2.15.Z001	Year of Study	I		
Course Instructor(s)	Prof.dr.sc. Irdina Drljević	Credit Value (ECTS)	7		
Teaching Assistants					
		COURSE SCRIPTION			
COURSE OBJECTIVES	Introducing students to the	e medical aspects of correcting skin and treatment of adnexal skin disea			
Prerequisites and Entry Competencies	Prerequisite: Functional A	natomy and Physiology of Skin A	dnexa		
Expected Learning Outcomes at the Course	 Demonstrate know skin adnexa Apply knowledge in Understand and im skin adnexa Acquire foundation glands 	burse, the student will be able to: ledge of the general principles of a in correcting disorders of the skin a plement prevention and treatment hal knowledge of dermatology of t ge conditions related to skin adnex	and skin adnexa strategies for diseases of he nail, body hair, and		
Course Content Detailed According to Teaching Hours	 Dermatology of both Basic characteristich face/eyebrows, muter Dermatology of skeen Prevention and treater Prevention and treater Correction of skinter Diseases of the skinter 	cs of nail dermatology ody hair cs of dermatology of hair in specific stache and beard, axilla, genital re in glands atment of nail diseases atment of hair diseases atment of skin gland diseases adnexa n and skin adnexa	<u> </u>		
Types of Instruction	In class On line	Consultations			

Student Obligations						
Student Workload Monitoring (enter the share in	Class Attendance	1,4	Research		Experimen al Work	1,05
ECTS credits for each activity so that the total number of ECTS credits	Practical Work		Report		Consultatio ns	0,7
corresponds to the credit value of the course)	Essay		Seminar Paper	1,75	Other (Specify)	
	Midterm Exam		Oral Exam		Other (Specify)	
	Written Exam	2,1	Project		Other (Specify)	
Performance During Classes and the Final Exam	2. Exercis 3. Contin Seminar Paper: 1. Writter 2. Oral pr Midterm Exam 1. 30 poir Final Exam 4. Written / Oral Exam 30 points TOTAL:	ce: e attendance – 5 se attendance – uous work / Inte in part – 15 poin resentation – 10 (Colloquium): nts	5 points	ints		
Supplementary Literature Supplementary Literature	Title Basic Principles of Dermons Skin Adnexa — Preventiv			n the	Availability through Other Media	Other
Supplementary Literature	1 TOYOTHU	- ina Incrupeut				
Other (at the proposer's discretion)						

COURSE TITLE	EMERGENCY CONDITIONS IN COSMETOLOGY					
LEVEL OF STUDY	Undergraduate					
Course Code	3.2.15.Z003	Year of Study	II			
		•				
Course Instructor(s)	Prof.dr.sc. Milica Rajović	Credit Value (ECTS)	7			
Teaching Assistants						
		OURSE CRIPTION				
COURSE OBJECTIVES			ency conditions in cosmetology			
Prerequisites and Entry Competencies	Prerequisite: Functional Ar	natomy and Physiology of the	e Skin			
Expected Learning Outcomes at the Course (10 outcomes)	 Timely recognize e Identify early symp provide first aid Recognize complication 	toms and signs of emergency	netology and respond promptly conditions in cosmetology and			
Course Content Detailed According to Teaching Hours	 Introduction – 3 ho Development of co Basic characteristic Systemic manifesta Local manifestation Emergency procedu Emergency procedu Emergency procedu Emergency procedu 	Identify and respond to allergic reactions Petailed Course Content (by Topics and Hours) Introduction – 3 hours Development of complications in cosmetology – 3 hours Basic characteristics of emergency conditions in cosmetology – 3 hours Systemic manifestations of allergic reactions – 3 hours Local manifestations of allergic reactions – 3 hours Emergency procedures for urgent conditions in cosmetology – 3 hours Emergency procedures for urgent conditions in dermatology – 3 hours Emergency procedures for injuries of the skin and skin adnexa – 3 hours Other emergency procedures in cosmetology of different etiologies – 3 hours				
Types of Instruction	In class Online	Consultations				
Student Obligations						
Student Workload Monitoring (enter the share in	Class Attendanc e	Research	Experimenal 1,05 Work			

ECTS credits for each activity so that the total	Practical Work		Report		Consultations	0,7
number of ECTS credits corresponds to the credit	Essay		Seminar Paper	1,75	Other (Specify)	
value of the course)	Midterm Exam		Oral Exam	2,1	Other (Specify)	
	Written Exam		Project		Other (Specify)	
Assessment and Evaluation of Student Performance During Classes and the Final Exam	2. Exerci 3. Contir Seminar Paper 1. Writte 2. Oral p Midterm Exan 1. 30 poi Final Exam 4. Written / Oral Exam	re attendance – 5 ise attendance – 5 nuous work / Interest in part – 15 points iresentation – 10 p in (Colloquium): ints	points points ractivity – 5 poi	ints		
Compulsory Literature (available in the library and through other media)	Title		Number Copies in Library		Availability through Other Media	Other
	Silvis M, ONeill R, C care medicine secrets Healt, 2017.	• •			(+)	
Supplementary Literature						
Other (at the proposer's discretion)						

COURSE TITLE	MONITORING ANI	O CORRECTION OF SKIN	N AGING PARAMETERS
LEVEL OF STUDY	Undergraduate		
Course Code	3.6.1.Z012	Year of Study	III
Course Instructor(s)	Prof.dr.sc. Milica Rajović	Credit Value (ECTS)	7
Teaching Assistants			
		OURSE	
COLIDGE		CRIPTION	
COURSE			damental parameters of aging
OBJECTIVES Prerequisites and	and to the recognition of ea	arry signs of skin aging. natomy and Physiology of the	Clain
Entry Competencies	i rerequisite. Functional Ai	latomy and Thysiology of the	5 SKIII
Expected Learning	Expected Learning Outcom	nes	
_	1	urse, students will be able to:	
(10 outcomes)	 Apply professional 	knowledge and skills in cour	nseling and performing
	_	asic parameters of skin aging	
	_	zed therapy plans for skin ag	-
		edge of the fundamental para	ameters of aging
	 Recognize early sig 	ns of skin aging	
Sadržaj predmeta	Detailed Course Content (b	ay Tonics and Hours)	
detaljno razrađen	· ·	liagnosing skin aging parame	eters – 3 hours
prema satnici nastave:		skin aging – 3 hours	Steris S flours
•	_	enting skin aging – 3 hours	
	_	technologies in the prevention	on and correction of aging
	parameters – 3 hour		
		use of cosmetic products in the	
	_	etic care in preventing skin a	aging – 3 hours
		e signs of aging – 3 hours	
		and hyperpigmentation and the	neir treatment – 3 hours
	• Rejuvenation – 3 ho		1 11 1 21
	• Cosmetic treatment	s for wrinkles of the face, nec	ck, and body – 3 hours
Types of	In class	Consultations	
Instruction	Online	Consumutons	
Student Obligations			
Student Workload	Class 2,1	Research	Experimental
Monitoring	Attendance		Work

(enter the share in ECTS credits for each activity so that the total	Practical Work		Report		Consultations	
number of ECTS credits corresponds to the credit value of the course)	Essay		Seminar Paper	1,75	Other (Specify)	
	Midterm Exam		Oral Exam	1,05	Other (Specify)	
	Written Exam	2,1	Project		Other (Specify)	
Assessment and Evaluation of Student Performance During Classes and the Final Exam	2. Exercis 3. Continu Seminar Paper: 1. Written 2. Oral pr Midterm Exam 1. 30 poin Final Exam 4. Written / Oral Exam: 30 points TOTAL:	ce: e attendance – 5 se attendance – 5 uous work / Intental part – 15 point esentation – 10 (Colloquium): hts	points 5 pointseractivity – 5 poi sspoints	nts		
Compulsory Literature (available in the library and through other media)	Title Textbook of Aging Ski Farage, Kenneth W. Maibach				https://www.rese archgate.net/pub lication/2396199 09_Textbook_of Aging_Skin	Other
Supplementary Literature	UISBAX MATERIA	LS				
Other (at the proposer's discretion)						

COURSE TITLE	BASIC COS	METIC TREA	TMENTS OF SKI	N ADNEXA
LEVEL OF STUDY	Undergraduate			
Course Code	3.6.1.Z014	Year of Study		III
Course Instructor(s)	Prof.dr.sc. Irdina Drljević	Credit Value	(ECTS)	5
Teaching Assistants				
		OURSE CRIPTION		
COURSE OBJECTIVES	The aim of the course is to int		the basic cosmetic t	reatments of the skin.
Prerequisites and Entry Competencies	Prerequisite: Functional Ar	natomy and Phys	iology of Skin Adn	exa
Expected Learning Outcomes at the Course (10 outcomes)	cosmetic treatment Demonstrate knowl Understand the imp treatment for skin a Apply fundamental Use essential prepar Demonstrate knowl Demonstrate knowl	and apply sciention of healthy skin to edge of basic contance of idention of the edge of basic contance of basic contance of basic contance of basic contant of the edge	fic knowledge to de ailored to the indivi- smetic treatments for fying the appropria c cosmetic treatment cosmetic treatment smetic treatments for smetic treatments for	or healthy skin adnexa te basic cosmetic nt of skin adnexa or dry skin
Course Content Detailed According to Teaching Hours	Detailed Course Content (b) Introduction – 3 hor Basic cosmetic trea Importance of deter Basic methods in co Basic preparations in The meaning of we Basic cosmetic trea Basic cosmetic trea Basic cosmetic trea Individual adaptation	treatts of skin action of skin action of the basic of the	Inexa according to a cosmetic treatment of skin adnexa – 3 hours adnexa – 3 hours nadnexa – 3 hours nadnexa – 3 hours ation skin adnexa –	t of skin adnexa – 3 hours 3 hours a – 3 hours
Types of Instruction	In class Online	Consul	tations	
Student Obligations				

Student Workload Monitoring	Class Attendance	1	Research	Experimental Work
(enter the share in	Practical Work		Report	Consultations
ECTS credits for each activity so that the total number of ECTS credits	Essay		Seminar Paper 1	Other (Specify)
corresponds to the credit value of the course)	Midterm Exam	1,5	Oral Exam	Other (Specify)
,	Written Exam	1,5	Project	Other (Specify)
Assessment and Evaluation of Student Performance During Classes and the Final Exam	2. Exercise atte 3. Continuous v • Seminar Paper: 1. Written part 2. Oral presenta • Midterm Exam (Coll 1. 30 points Final Exam 4. Written / Oral Exam:	ndance – 5 ndance – work / Int – 15 poin ation – 10 oquium):	5 points 5 points eractivity – 5 points ts points	
Compulsory Literature (available in the library and through other media)	Title Cosmetic Dermatology: Pr Procedures, 3rd Edition — Draelos			Availability through Other Media
Supplementary Literature	• UISBAX MATERI	IALS	,	,
Other (at the proposer's discretion)				

COURSE TITLE	SPECIAL C	OSMETIC TREATME	NTS OF SKIN ADNEXA		
LEVEL OF STUDY	Undergraduate				
Course Code	3.6.1.Z015	Year of Study	III		
Course Instructor(s)	Prof.dr.sc. Irdina Drljević	Credit Value (ECTS)	6		
Teaching Assistants					
		OURSE CRIPTION			
COURSE OBJECTIVES			special cosmetic treatments of skin		
Prerequisites and Entry Competencies	Prerequisite: Functional Co	osmetology			
Expected Learning Outcomes at the Course (10 outcomes)	treatments Critically evaluate a treatments of health Demonstrate knowledge Recognize indicated Demonstrate knowledge Apply fundamental	and apply scientific known skin tailored to the induction of special cosmetic ons for dermabrasion ledge of basic preparation methods in facial and bo	propriate special cosmetic Pledge to determine special cosmetic ividual treatments for healthy skin as used in cosmetic treatments		
Course Content Detailed According to Teaching Hours	 Detailed Course Content (by Topics and Hours) Introduction – 3 hours Special cosmetic treatments of the skin according to skin type – 3 hours Importance of determining special and specific cosmetic treatments – 3 hours Basic methods in special cosmetic treatment of the skin and body – 3 hours Basic preparations in special cosmetic treatment of the skin and body – 3 hours Dermabrasion: methods and effects – 3 hours Indications for dermabrasion – 3 hours Special cosmetic treatment of dry skin of the face and body – 3 hours Special cosmetic treatment of oily skin of the face and body – 3 hours Special cosmetic treatment of combination skin of the face and body – 3 hours 				
Types of Instruction	In class Online	Consultations			
Student Obligations					
Student Workload	Class 1,2	Research	Experimental		

Monitoring	Attendanc				Work	
(enter the share in	e				WOIK	
ECTS credits for each	Practical Work		Report		Consultations	
activity so that the total			_			
number of ECTS credits	Essay		Seminar	1,2	Other	
corresponds to the credit			Paper		(Specify)	
value of the course)	Midterm Exam	1,8	Oral Exam		Other	
value of the course)					(Specify)	
	Written Exam	1,8	Project		Other (Specify)
Assessment and	Assessment and Evalu	ation of Studen	t Performance			
Evaluation of Student	Pre-exam Activities					
Performance During	 Class Attenda 					
Classes and the Final					5%	
Exam			•		5%	
			teractivity – 5 poi	ints	5%	
	Seminar Pape				1.50/	
			*		10%	
		m (Colloquium)			200/	
		mus			30%	
	Illim al Lizzana					
	Final Exam	n:				
	4. Written / Oral Exan				30%	
	4. Written / Oral Exan30 points				30%	
	4. Written / Oral Exan					
Compulsory Literature	4. Written / Oral Exan 30 points TOTAL:			•••••	100%	Other
Compulsory Literature	4. Written / Oral Exan30 points		Number	of	Availability	Other
(available in the library	4. Written / Oral Exan 30 points TOTAL:		Number Copies in	of	Availability through	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL:		Number	of	Availability	Other
(available in the library	4. Written / Oral Exan 30 points TOTAL:		Number Copies in	of	Availability through	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL:		Number Copies in	of	Availability through	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title		Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo	ogy: Products o	Number Copies in Library	of	Availability through	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other media) Supplementary	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other media) Supplementary Literature	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi Draelos	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other media) Supplementary	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi Draelos	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other
(available in the library and through other media) Supplementary Literature	4. Written / Oral Exan 30 points TOTAL: Title Cosmetic Dermatolo Procedures, 3rd Edi Draelos	ogy: Products o	Number Copies in Library	of	Availability through Other Media	Other

COURSE TITLE	APPLICATION OF INSTRUMENTAL (APPARATUS-BASED) COSMETICS				
COURSE TITLE	AFFLICATION OF IN		AL (AFFAKAT) IN ADNEXA	DS-DASED) COSMETICS	
LEVEL OF STUDY	Undergraduate				
Course Code	3.6.1.Z016	Year of Stud	ly	III	
Course Instructor(s)	Prof.dr.sc. Milica Rajović	Credit Value	e (ECTS)	7	
Teaching Assistants					
		OURSE CRIPTION			
COURSE	The aim of the course is to		ents to the princip	oles of applying apparatus-	
OBJECTIVES	based cosmetics on the skir		1 1		
Prerequisites and Entry Competencies	Prerequisite: Functional Ar	natomy and Ph	ysiology of Skin A	Adnexa	
Expected Learning Outcomes at the Course (10 outcomes)	 apparatus-based cost Demonstrate knowl apparatus-based cost Critically evaluate a apparatus-based tree Critically evaluate a in skin treatments 	knowledge and smetic treatment edge of the gen smetics on the and apply scient atment tailored and apply scient ad counseling ourse and outcor	d skills in counsel onts on the skin neral principles of skin ntific knowledge to the individual attific knowledge roon the effects and the of therapy	f proper application of o identify the optimal regarding the use of devices proper application of lasers,	
Course Content Detailed According to Teaching Hours	 optimal apparatus-b Critical evaluation a in skin treatments – Counseling on the e outcomes of therapy Advantages and sid Bioptron – polarize Mechanical and the General principles of 	ars and application ased skin treat and application 3 hours affects and prop y – 3 hours e effects of ren d light in cosm rmal effects of of ultrasound a n indications fors	n of scientific knoment tailored to the of scientific known per use of lasers, and moving vascular catelogy – 3 hours fultrasound in cospelication in dernor apparatus-base	smetology – 3 hours natology – 3 hours d improvement of skin	
	Timespies of appare	ilus-baseu toili	ng or simil comice	dive dissue 5 hours	

Student Obligations						
Student Obligations						
Student Workload Monitoring	Class Attendance	1,4	Research		Experimenta Work	ıl
(enter the share in	Practical Work		Report		Consultation	s
ECTS credits for each activity so that the total	Essay		Seminar Paper	1,4	Other (Specia	fy)
number of ECTS credits	Midterm Exam	2,1	Oral Exam		Other (Specia	
corresponds to the credit value of the course)	Written Exam	2,1	Project		Other (Special	fy)
Performance During Classes and the Final Exam	Assessment and Evaluation of Student Performance Pre-exam Activities Class Attendance: 1. Lecture attendance – 5 points					
Compulsory Literature (available in the library and through other	Title		Number of Copies in the Library	1	Availability through Other Media	Other
	Cosmetic Applications of Light-Based Systems (Pro Cosmetic Dermatology) - John Marshall, Ron Shel	ocedures in — urednik:		h z /t A L P T	ttps://www.ama on.com/- ne/Cosmetics- applications- ight-Based- ersonal- echnology/dp/0 15515723	
Supplementary Literature	UISBAX MATERIALS					

Other (at the proposer's			
discretion)			

COURSE TITLE	BODY AESTHETICS PARAMETERS					
TEXAL OF COURS						
LEVEL OF STUDY	Dodiplomski					
Course Code	3.6.1.Z017	Year o	f Study		III	
Course Instructor(s)	Prof.dr.sc. Milica Rajov	ić Credit	Value (ECTS)		7	
Teaching Assistants						
	nı	COURSE ESCRIPTI				
COURSE	The aim of the course is			hasic nar	ameters of aging the	
OBJECTIVES	recognition of early sign parameter analysis.			-	0 0	
Prerequisites and Entry Competencies	Prerequisite: Functional	Anatomy a	nd Physiology o	f the Skin		
Expected Learning Outcomes at the Course (10 outcomes)	 Upon completion of the course, students will be able to: Apply professional knowledge and skills in counseling and performing diagnostics of the basic parameters of aging Develop individualized therapy plans for the correction and care of aging skin Demonstrate knowledge of the fundamental parameters of aging Recognize early signs of skin aging Apply professional knowledge and skills in counseling and performing analysis of body aesthetics parameters 					
Course Content Detailed According to Teaching Hours	1. Osnovne metode dijagnostike parametara starenja,3h 2. Procesima koji dovode do procesa starenja kože,3h 3. Postupcima preveniranja starenja kože,3h 4. Primjene novih tehnologija u prevenciji i otklanjanju parametara starenja,3h 5. Djelovanje i ispravna primjena kozmetičkih preparata u procesu starenja,3h 6. Značaj kozmetičke njege u prevenciji starenja kože,3h 7. Tretman sigurnih znakova starenja,3h 8. Mrlje po tijelu: hipo i hiperpigmentacije i njihov tretman,3h 9. Rejuvenatio,3h 10. Kozmetički tretmani nabora kože lica, vrata i tijela,3h					
Types of	In class		Consultations			
Instruction	Online					
Student Obligations						
Student Workload Monitoring (enter the share in	Class Attendanc e		Research		Experimental Work	

ECTS credits for each activity so that the total	Practical Work		Report		Consultations		
number of ECTS credits corresponds to the credit	Essay		Seminar Paper	1,75	Other (Specify)		
value of the course)	Midterm Exam		Oral Exam	1,05	Other (Specify)		
	Written Exam	2,1	Project		Other (Specify)		
Assessment and Evaluation of Student Performance During Classes and the Final Exam	Assessment and Evaluation of Student Performance Pre-exam Activities Class Attendance: 1. Lecture attendance – 5 points						
	• Seminar Paper: 1. Written part – 15 points						
Compulsory Literature (available in the library and through other media)	Title		Number Copies i Library		Availability through Other Media	Other	
	Textbook of Cosmetic Edition) Robert Bara Maibach		(6th		https://www.rout ledge.com/Textb ook-of- Cosmetic- Dermatology/Ba ran- Maibach/p/book/ 9781032270678		
Supplementary Literature							
Other (at the proposer's discretion)							