

UNIVERSITY OF SPLIT

SCHOOL OF MEDICINE

**DETAILED PROPOSAL OF THE STUDY PROGRAM
INTEGRATED UNDERGRADUATE AND GRADUATE
UNIVERSITY STUDY PROGRAM**

DENTAL MEDICINE

February 2014.

GENERAL INFORMATION OF HIGHER EDUCATION INSTITUTION

Name of higher education institution	University of Split School of Medicine
Address	Šoltanska 2; 21000 Split; Croatia
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GENERAL INFORMATION OF THE STUDY PROGRAM

Name of the study program	Dental Medicine		
Provider of the study program	University of Split School of Medicine		
Other participants	No other participants		
Type of study program	Vocational study program <input type="checkbox"/>		University study program <input checked="" type="checkbox"/>
Level of study program	Undergraduate <input type="checkbox"/>	Graduate <input type="checkbox"/>	Integrated <input checked="" type="checkbox"/>
	Postgraduate <input type="checkbox"/>	Postgraduate specialist <input type="checkbox"/>	Graduate specialist <input type="checkbox"/>
Academic/vocational title earned at completion of study	Medical doctor (MD)		

1. DESCRIPTION OF THE STUDY PROGRAM

1.1. General information

Scientific/artistic area of the study programme	Biomedicine and health
Duration of the study programme	6 years
The minimum number of ECTS required for completion of study	360
Enrolment requirements and admission procedure	in accordance to public call requirements

1.3. Completion of study

<i>Final requirement for completion of study</i>	Final thesis <input type="checkbox"/> Diploma thesis <input checked="" type="checkbox"/>	Final exam <input type="checkbox"/> Diploma exam <input checked="" type="checkbox"/>
<i>Requirements for final/diploma thesis or final/diploma/exam</i>	Requirement for diploma thesis submission is passing of all exams, and requirement for diploma exam is completion of Clinical rotations in clinical and elective clinical courses in dental medicine.	
<i>Procedure of evaluation of final/diploma exam and evaluation and defence of final/diploma thesis</i>	The quality of graduation thesis and public thesis defense is graded. Graduation thesis quality is graded with 0-50 points, and public thesis defense is graded with 0-50 points. Grades: sufficient 56-65 points, good 66-75 points, very good 76-85 points and excellent 86 and more points.	

1.4. . List of mandatory and elective courses

YEAR OF THE PROGRAM	Hours	ECTS
1 st year	765	60

2 nd year	765	60
3 rd year	950	60
4 th year	1055	60
5 th year	1035	60
6 th year	1010	60
TOTAL	5580	360

List of courses							
Year of study: 1 st year							
Semester: non applicable							
STATUS	CODE	COURSE	HOURS IN SEMESTER				ECTS
			L	S	E	T	
Mandatory	MFD102	Biophysiscs	23	15	22	60	5
	MFD104	Medical Biology	25	25	25	75	6
	MFD105	Medical Chemistry	30	15	30	75	6
	MFD106	Immunology and Medical Genetics	20	20	20	60	5
	MFD101	Introduction and History of Dental Medicine	17	13	0	30	2
	MFD108	Scientific Research 1	5	5	10	20	1
	MFD103	General and Community Dentistry	10	20	0	30	2
	MFD109	Anatomy	52	53	70	175	14
	MFD107	Histology and Embriology	30	35	35	100	8
	MFD110	Dental Anatomy and Anthropology	20	10	60	90	7
	Total mandatory		232	211	272	715	56
Elective	MFDI...	Elective course	5	15	5	25	2
	MFDI...	Elective course	5	15	5	25	2
	Total elective		10	30	10	50	4
TOTAL			242	241	282	765	60

List of courses							
Year of study: 2 nd year							
Semester: non applicable							
STATUS	CODE	COURSE	HOURS IN SEMESTER				ECTS
			L	S	E	T	
Mandatory	MFD201	Physiology	6	83	51	140	11
	MFD205	Biochemistry	25	35	25	85	7
	MFD203	Neuroscience in Dental Medicine	14	21	20	55	5
	MFD206	Medical Microbiology and Parasitology	20	20	35	75	6
	MFD207	Pathology	30	45	45	120	9

	MFD202	Scientific Research 2	5	5	10	20	1
	MFD204	Psychological Medicine	5	11	24	40	3
	MFD208	Pathophysiology	30	35	25	90	7
	MFD209	Pharmacology	20	40	30	90	7
	Total mandatory		155	295	265	715	56
Elective	MFDI...	Elective course	5	15	5	25	2
	MFDI...	Elective course	5	15	5	25	2
	Total elective		10	30	10	50	4
TOTAL			165	325	275	765	60

List of courses								
Year of study: 3 rd year								
Semester: non applicable								
STATUS	CODE	COURSE	HOURS IN SEMESTER				ECTS	
			L	S	E	T		
Mandatory	MFD301	General Radiology and Radiology of Orofacial Region	15	10	25	50	3	
	MFD302	Internal medicine	55	0	55	110	7	
	MFD303	Infectology	16	20	4	40	2	
	MFD304	Anesthesiology and Intensive Care Medicine	13	17	20	50	3	
	MFD305	Dermatovenerology	15	0	15	30	2	
	MFD306	Oncology And Tumors of Orofacial Region	5	10	15	30	2	
	MFD307	Otorhinolaryngology	15	15	15	45	3	
	MFD308	Ophtalmology	7	7	6	20	1	
	MFD309	Materials in Dentistry	30	0	0	30	2	
	MFD310	Propedeutics of Dental Medicine	10	10	10	30	2	
	MFD311	Cariology	15	10	5	30	2	
	MFD312	Preventive Dental Medicine	10	10	10	30	2	
	MFD313	Restaurative Dental Medicine 1	25	25	75	125	8	
	MFD314	Removable Prosthodontics 1	35	35	55	125	8	
	MFD315	Fixed Prosthodontics 1	35	35	55	125	8	
	MFD317	Ethics in Dental Medicine	10	0	0	10	0,5	
	MFD316	Scientific Research 3	0	10	10	20	0,5	
	Total mandatory			311	214	375	900	57
	Elective	MFDI...	Elective course	5	15	5	25	2
MFDI...		Elective course	5	15	5	25	2	
Total elective		10	30	10	50	4		
TOTAL			321	244	385	950	60	

List of courses	
Year of study: 4th year	
Semester: non applicable	

STATUS	CODE	COURSE	HOURS IN SEMESTER				ECTS
			L	S	E	T	
Mandatory	MFD401	Oral Hygiene	10	10	10	30	2
	MFD403	Removable Prosthodontics 2	15	15	45	75	4
	MFD402	Fixed Prosthodontics 2	15	15	45	75	4
	MFD404	Gnathology	15	15	15	45	3
	MFD405	Restaurative Dental Medicine 2	15	15	90	120	6
	MFD406	Endodontics 1	15	15	45	75	4
	MFD407	Pediatric Dentistry 1	30	0	60	90	5
	MFD408	Orofacial Genetics	15	0	0	15	0.5
	MFD409	Oral Medicine 1	10	10	60	90	4
	MFD410	Oral Surgery 1	20	10	60	90	6
	MFD411	Orthodontics 1	20	10	60	90	5
	MFD412	Periodontology 1	30	0	60	90	6
	MFD416	Ethics in Dental Medicine 2	0	10	0	10	0.5
	MFD413	Surgery	20	20	20	60	4
	MFD414	Psychiatry	10	5	10	25	1
	MFD415	Neurology	10	5	10	25	1
	Total mandatory			260	155	590	1005
Elective	MFDI...	Elective course	5	15	5	25	2
	MFDI...	Elective course	5	15	5	25	2
	Total elective		10	30	10	50	4
TOTAL			270	185	600	1055	60

List of courses							
Year of study: 5 th year							
Semester: non applicable							
STATUS	CODE	COURSE	HOURS IN SEMESTER				ECTS
			L	S	E	T	
Mandatory	MFD503	Endodontics 2	25	0	100	125	7
	MFD506	Removable Prosthodontics 3	0	25	50	75	5
	MFD507	Fixed Prosthodontics 3	0	25	50	75	5
	MFD510	Maxillofacial Surgery	15	0	30	45	2
	MFD502	Oral Surgery 2	0	0	120	120	6
	MFD511	Oral Medicine 2	20	10	90	120	7
	MFD513	Pediatric Dentistry 2	15	0	95	110	6
	MFD505	Orthodontics 2	15	15	30	60	4
	MFD501	Periodontology 2	15	15	90	120	7
	MFD508	Geriatric Dentistry	15	0	0	15	0.5
	MFD509	Implantology	15	10	15	40	2
	MFD514	Ethics in Dental Medicine 3	0	10	0	10	0.5

	MFD512	Gynaecology	10	0	10	20	1
	MFD513	Pediatrics	20	0	300	50	3
	Total mandatory		165	110	710	985	56
Elective	MFDI...	Elective course	5	15	5	25	2
	MFDI...	Elective course	5	15	5	25	2
	Total elective		10	30	10	50	4
TOTAL			175	140	720	1035	60

List of courses								
Year of study: 6 th year								
Semester: non applicable								
STATUS	CODE	COURSE	HOURS IN SEMESTER				ECTS	
			L	S	E	T		
Mandatory	MFD601	Forensic Dentistry	15	0	15	30	2	
	MFD602	Public Health and Epidemiology	25	10	15	50	2	
	MFD603	Organization and Economics of Dental Healthcare	15	10	5	30	2	
	MFD604	Endodontics 3	0	0	50	50	2	
	MFD606	Removable Prosthodontics 4	0	0	50	50	2	
	MFD605	Fixed Prosthodontics 4	0	0	50	50	2	
	MFD607	Oral Surgery 3	0	0	50	50	2	
	MFD608	Oral Medicine 3	0	0	50	50	2	
	MFD609	Pediatric dentistry 3	0	0	50	50	2	
	MFD610	Orthodontics 3	0	0	50	50	2	
	MFD611	Periodontology 3	0	0	50	50	2	
	MFD612	Clinical Dentistry	0	0	250	250	16	
	MFDDI	Graduation Exam	/	/	/	/	6	
	Total mandatory			55	20	685	760	44
	Elective	MFDI...	Elective Courses in Clinical Dentistry	0	0	250	250	16
Total elective		0	0	250	250	16		
TOTAL			55	20	935	1010	60	

NAME OF THE COURSE		Biophysics				
Code		Year of study	1st			
Course teacher	Prof. Davor Eterović, PhD	Credits (ECTS)	5			
Associate teachers	Assist. prof. Marija Raguž,	Type of instruction	L	S	E	T

	PhD; Assist. prof. Damir Kovačić, PhD; Darijo Radović, MD, MSc; dr.med;	(number of hours)	23	15	22	60
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	According to Study Regulations					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and explain basic laws and principles of physics• to interpret functioning of biologic systems according to foundational physics laws and simple working models• to differ radiographs, scintigraphs, echographs and images acquired by MR or CT• to describe principles of acquiring radiographs, scintigraphs and echographs• to describe the operating principles of MR and CT• to describe the application of basic imaging methods with regard to various disciplines in medicine and dental medicine					
Course content broken down in detail by weekly class schedule (syllabus)	Elementary atomic physics; Biotransports; Membrane potentials; Action potential; Biomechanics; Physics of ear and hearing; Physics of eye and vision; Physics of heart and circulation; Elementary nuclear physics; Interaction of radiation and mater; Radiation protection; Physics of nuclear medicine; Radiology physics; Magnetic resonance imaging; Physics of ultrasound.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student	Written exam, oral exam					

work in class and at the final exam			
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	1. S. Janković i D. Eterović (urednici): Fizikalne osnove i klinički aspekti slikovne dijagnostike, Medicinska naklada, Zagreb, 2002. (za I. dio)		
	2. Eterović D.: Biofizički temelji fiziologije; materijali za skriptu (za II. dio)		
	3. Eterović D.: Upute za vježbe iz Medicinske fizike i biofizike		
Optional literature (at the time of submission of study programme proposal)	1. Berne RM i Levy MN: Fiziologija, 3. izd. Medicinska naklada; Zagreb, 1996. 2. S Webb (urednik): The physics of medical imaging, Institute of Physics Publishing, Bristol and Philadelphia, 2000.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Medical biology			
Code		Year of study	1st		
Course teacher	Prof. Tatijana Zemunik, M.D	Credits (ECTS)	6		
Associate teachers	Assist. Prof. Vesna Boraska	Type of instruction	L	S	E T

	Perica, Ph.D.; Ivana Gunjača, MSc; Nikolina Vidan, MSc;	(number of hours)	25	25	25	75
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to identify, describe and explain the basic concepts of the modern biological science• to associate the basic concepts of modern biological sciences with diagnostics and treatment of illness• to identify, describe and explain the cell biology• to identify, describe and explain the basic aspects of molecular biology• to identify, describe and explain the basic concepts of developmental biology• to identify, describe and explain the basic concepts of genetics• to develop critical thinking based on the knowledge of modern biological science					
Course content broken down in detail by weekly class schedule (syllabus)	Principles of Molecular Biology (DNA structure, replication, transcription, translation, gene expression, structure and function of ribosomes, posttranslational modification of proteins, protein degradation, general and specific recombination, methods of DNA analysis); Biology of the Cell (the tools of cell biology, evolution of the cell, structure and function of cell components, nucleus, nucleolus, endoplasmic reticulum, Golgi apparatus, lysosomes, peroxisomes, transport and traffic of proteins, cytoskeleton and cell movement, signalisation, bioenergetics and metabolism, cell communication, cell cycle, apoptosis); Developmental Biology and Genetics (fertilization and early embryonic development, cloning, teratogenesis, prenatal diagnosis, principles of inheritance, mutations, population genetics, gene therapy, molecular biology of cancer, human genome, chromosomes, cytogenetics).					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					

Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous assessment of knowledge during the course, written exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	1. Cooper GM, Hausman RE. The Cell, a Molecular Approach. 6th ed. Washington DC, Sunderland (Massachussets): ASM Press, Sinauer Associates; 2013.					
	2. Cox TM, Sinclair J. Molecular Biology in Medicine. Oxford: Blackwell Science Ltd.; 2000.					
	Peruzović M., Zemunik T.: Medical biology, Handbook for practical work. Department for Medical biology, Medical School University of Split, Split, 2010.					
Optional literature (at the time of submission of study programme proposal)	1. Alberts B et. all. Essential Cell Biology, New York, Garland Science, 3/e, 2009. 2. Turnpenny P, Ellard S. Emery's Elements of Medical Genetics. 14th edition, Elsevier Churchill Livingstone, Edinburgh 2011. 3. Gilbert SF. Developmental Biology, Sinauer, 8/e, 2006.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Medical chemistry					
Code		Year of study	1st				
Course teacher	Assoc. Prof. Anita Markotić, PhD	Credits (ECTS)	6				
Associate teachers	Prof. Irena Drmić-Hofman, PhD; Assist. Prof. Vedrana Čikeš Čulić, PhD; Nikolina Režić Mužinić, MSc; Angela Mastelić MSc; Sandra Dujjić-Bilušić, MSc	Type of instruction (number of hours)	L	S	E	T	
			30	15	30	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe the basic principles of physical chemistry• to describe the basic principles of organic chemistry• to describe the basic principles of bioinorganic chemistry• to describe the kinetics and energetics of chemical reactions, electrochemical reactions and electrochemical processes in the oral cavity• to describe the chemical mechanisms of teeth spoilage and protection• to describe gases, solutions and buffers• to specify and describe laboratory equipment and its application• to perform under the supervision the qualitative and quantitative analysis of biologically important cations, anions and salts• to describe qualitative reactions on functional groups of organic molecules						
Course content broken down in detail by weekly class schedule (syllabus)	Intramolecular and intermolecular forces. Inorganic substances in the oral cavity. Energy of chemical reactions. Electrochemical reactions. Electrochemical processes in the oral cavity. Corrosion. Photochemical processes. Chemical equilibrium. Concrements. Tooth enamel - teeth spoilage and protection. The kinetics of chemical reactions. Enzyme kinetics. Gases and solutions. Buffers. Bioinorganic chemistry. Nomenclature, properties and stereochemistry of organic compounds related to the study of dental medicine. Laboratory equipment and its application. Qualitative chemical analysis of biologically important cations, anions and salts. Quantitative chemical analysis. Qualitative reactions on functional groups of organic molecules.						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student	According to Study Regulations						

responsibilities						
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	1. P.W. Atkins, M.J. Clugston. Načela fizikalne kemije, Školska knjiga, Zagreb, 1992.					
	2. J. McMurry. Osnove organske kemije, Medicinski fakultet Sveučilišta u Rijeci i Zrinski d.d., 2014.					
Optional literature (at the time of submission of study programme proposal)	1. P. Atkins, J. de Paula. Physical Chemistry, 10th edition. Macmillian Education, Oxford, 2014.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Immunology and Medical genetics					
Code		Year of study	1st				
Course teacher	prof. Janoš Terzić, MD, PhD	Credits (ECTS)	5				
Associate teachers	Prof. Ivana Marinović Terzić, PhD;	Type of instruction (number of hours)	L	S	E	T	
			20	20	20	60	

	Assist. prof. Ivana Novak Nakir, PhD; Jelena Korać Prlić, PhD; Mija Marinković, MSc; Marina Degoricija, dipl.ing;					
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to explain how innate and adaptive immunity function and integrate their join functioning in the defense of human organism• to use immunologic terminology appropriately• to name immune cells and antibody classes; describe their action mechanism• to explain antibody and T cell receptor diversity. Describe the most important cytokines and their main functions• to differentiate main immune disorders (hypersensitivity, autoimmunity and immunodeficiency) and explain mechanism of their development• to describe the structure of human genome and 'average' genes and to explain basic rules of inheritance using basic examples• to describe basic principles of bioinformatics• to explain genetic patterns and genetic background of various hereditary disorders with respect to affected organs, tissues and cellular organelles (mitochondrial, neurologic, muscle, blood, neoplasms)• to describe main principles of genetic tests, genetic counselling and therapeutic methods for genetic disorders and diseases					
Course content broken down in detail by weekly class schedule (syllabus)	Basic Immunology; Innate Immunity; Cytokines; Chronic inflammation and cancer; Research methods in immunology; Inflammasome. Microbiome; Introduction to Medical genetics, functional genomics & proteomics; Human genome project. Farmacogenomics; RNA genes, RNAi, Mutations and aberrations; DNA analysis, Mitochondrial diseases; Gene therapy; Genetically modified organisms (GMO); Epigenetics, Telomeres; Antigen presentation, MHC; Antigen recognition, Adaptive immunity; Cell-mediated immune responses; Effector mechanisms in cell-mediated immunity; Humoral immune responses, Antibodies; Effector mechanisms in humoral immunity responses; Complement; Immunological tolerance. Autoimmunity, Tumor immunity, Transplantation; Hypersensitivity; Clinical cases; Congenital and accured immunodeficiencies, Clinical cases; Chromosomes, DNA analysis techniques; Mendelian and Non-Mendelian inheritance patterns;					

	Populations genetics; Genetic counseling; Family history of cancer; Genetic factors in common disorders, Family history: Mendelian and other diseases, Genetic screening; Congenital malformations; Ethical and legal issues.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	1. Andreis I i sur. Imunologija, 7. izd. Medicinska naklada, Zagreb, 2010.					
	2. Turnpenny P, Ellard S. Emeryjeve osnove medicinske genetike, 14. izd. Medicinska naklada, Zagreb, 2011.					
Optional literature (at the time of submission of study programme proposal)	1. Case studies in immunology: A clinical companion. Geha R, Notarangelo L. 6 th ed. New York: Garland Science; 2011. 2. Human molecular genetics. Strachan T, Read AP. 4 th ed. New York (NY): Garland Science, Taylor & Francis Group; 2010.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Introduction to dentistry and history of dentistry					
Code		Year of study	1st				
Course teacher	Darko Kero, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Danijela Kalibović Govorko, DMD, PhD; Nikica Pirović, DMD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			17	13	0	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to identify founding principles of dental healthcare• to designate key authors and their contribution to development of dental medicine• to mention and describe the most significant events and breakthroughs during the course of development of dental medicine in Croatia and worldwide• to mention and describe types and distribution of orofacial diseases according to evolutionary development of human species over the course of prehistoric, ancient, industrial and modern era• to describe basic concepts and academical structure of education in dental medicine• to evaluate functionality of dental healthcare with regard to specific disciplines in dentistry• to identify rights, duties and responsibilities of dentists and patients• to evaluate the necessity of life-long education in dental medicine from a practical stand-point						
Course content broken down in detail by weekly class schedule (syllabus)	<p>Classes in this course will be conducted by lectures and seminars.</p> <p>Oral morbidity (prevalence, incidence) and an overview of the most common diseases dealt within various disciplines in dental medicine. The system of study and organization of undergraduate and postgraduate education in dental medicine. Dental office as a workplace, introductory remarks on the organization</p>						

	of dental healthcare within the public health and private enterprise. Dental medicine of prehistoric and ancient peoples, archaic Non-European cultures; ancient Greco-Roman Dental Medicine, Islamic Health Education; Medieval Dental Medicine; awakening the natural sciences and their impact on dental medicine; Eighteenth century, establishment of Dental Medicine as a profession; Pierre Fauchard, the founder of modern dental medicine; development of education in dental medicine; dental medicine in the industrial age. Disciplines in dentistry (Croatia and worldwide), their past, present and future: prosthetics, orthodontics, pedodontics, restorative dentistry, endodontics, oral medicine, periodontology), oral surgery					
	30 hours of instruction; Introduction to dental medicine takes 5 hours of lectures and 10 hours of seminars; History of dental medicine takes 10 hours of lectures and 5 hours of seminars.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Hraste J, Gržić R. Uvod u stomatologiju. Rijeka: Medicinski fakultet Sveučilišta u Rijeci; 2008					
	Knežević G. Povijest oralne kirurgije. U: Knežević G, urednik. Oralna kirurgija 2 dio. Zagreb: Medicinska naklada; 2003. str. 1-53. Škrobonja A, Muzur A, Rotschild V. Povijest medicine za praktičare. Rijeka: Adamić; 2003.					
	Kaić Z. Razvoj stomatologije u Hrvatskoj. Acta Stomatol Croat 2002;36:5-18.					

Optional literature (at the time of submission of study programme proposal)	References from lectures and seminars		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Scientific research 1				
Code		Year of study	1st			
Course teacher	Prof. Ana Marušić, MD, PhD	Credits (ECTS)	1			
Associate teachers	Prof. Matko Marušić, MD, PhD; Prof. Zoran Đogaš, MD, PhD; Assist. Prof. Ana Jerončić, PhD; Assist. Prof. Ivana Kolčić; Irena Zakarija Grković, MD, PhD; Mario Malički, MD; Tina Poklepović Peričić, DMD; Lana Bošnjak, MS; Ana Utrobičić, BA; Frane Mihanović, MS;	Type of instruction (number of hours)	L	S	E	T
			5	5	10	20
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe principles of evidence based medicine• to describe research methodology, use of medical information and application of statistical methods in medicine• to describe different methods of collecting scientific literature• to identify and understand sources of knowledge and paths of communicating new knowledge in medicine and health care					

	<ul style="list-style-type: none">• to understand of different types of study design• to critically assess evidence and research data• to understand and use of basic statistical terms, definitions and methods• to understand different ways of presenting information collected during research• to describe responsible conduct of research and research integrity					
Course content broken down in detail by weekly class schedule (syllabus)	The course integrates topics from the following fields: 1. medical informatics, 2. medical statistics, 3. principles of research, 4. principles of evidence based medicine, and 5. principles of assessing quality of health care. For each of the 5 areas, integrated into logical units, the teaching includes 1 h lectures, 1h seminars organized as team learning and 2 h practical work organized as problem-base learning (a total of direct student teaching: 5 h lectures, 5 h seminars and 10 h practical labs).					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Marušić M, ur. Uvod u znanstveni rad u medicini. 4. izdanje. Zagreb: Medicinska naklada; 2013.					
	Kern J, Petrovečki M, ur. Medicinska informatika. Zagreb: Medicinska naklada; 2009.					
	Ferenczi E, Muirhead N. Statistika i epidemiologija u jednom potezu. Zagreb: Medicinska naklada; 2011.					
	Nastavni materijali za pojedine nastavne jedinice					
Optional literature (at the time of submission of study programme proposal)	1. Day RA, Gastel N. How to write and publish a scientific paper, 6th edition. Westport (CT): Greenwood Press; 2006. 2. Lang T, Secic M. How To report statistics in medicine: annotated guidelines for authors, editors, and reviewers, 2nd edition. Philadelphia (PA): American College					

	<p>of Physicians; 2006.</p> <p>3. Hoyt RE, Yoshihashi A, Sutton M. Medical informatics: practical guide for the healthcare professional. Third edition e-book. Lulu.com, 2009.</p> <p>4. Ogrinc GS, Headrick LA. Fundamentals of health care improvement. Oakbrook Terrace (IL): USA Joint Commission Resources; 2008.</p> <p>5. Committee on Assessing Integrity in Research Environments. Integrity in scientific research. Washington, DC: Institute of Medicine and National Research Council; 2002.</p>
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		General and community dentistry					
Code		Year of study	1st				
Course teacher	Darko Kero, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Nikica Pirović, DMD, MSc; Danijela Kalibović Govorko, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			10	20	0	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to identify social expectations imposed on doctors of dental medicineto bring up and describe basic factors in the background of social trends affecting professional development and practical work of doctors of dental medicineto explain and analyze objasniti i analizirati relationship between doctors of dental medicine and patients within societyto recognize goals of personal profesional socializationto describe basic principles of healthcare insuranceto compare epidemiological dana on the most prevalent oral diseases between countries employing various healthcare strategies and systemsto describe the principles and efficiency of different fluoridation methods as a public healthcare measure for preventing dental caries						
Course content broken down in detail by weekly	Cooperation between dental-medical, humanistic and behavioral professions for identification and resolution of leading healthcare problems in society. The fundamental principles of current monetary system and its impact on dental						

class schedule (syllabus)	medicine. Basic principles of insurance and its impact on public health policy and business practice in dental medicine. Relations patient - dentist – society; Societal expectations of dental medical profession. The impact of social inequalities on accessibility health and health care (social differentiation, social differences, social stratification, social determinants of health). Quality of life and health protection (measures for improving the quality of life, development of dental technology, prevention as a strategy in dental healthcare). 30 hours of instruction - 10 hours of lectures and 20 hours of seminars.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Presentation of essay on assigned subject					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	N. Ferguson. Uspon novca; Naklada Ljevak, 1. izdanje, 2009. Poglavlje 4.					
	A. Thylstrup, O. Feyerskow: Textbook of Clinical Cariology; Munksgaard, 2nd edition, 1999. Poglavlja 7, 8 i 9.					
	J. Hraste, R. Gržić. Opća i socijalna stomatologija. Rijeka, 2008. god.					
Optional literature (at the time of submission of study programme proposal)	M. Štifanić: Medicinska sociologija. Naklada Adamić, Rijeka, 2001					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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)	
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NAME OF THE COURSE		Anatomy					
Code		Year of study	1st				
Course teacher	Prof. Ivica Grković, MD, PhD	Credits (ECTS)	14				
Associate teachers	prof. Katarina Vilović, MD, PhD; Irena Pintarić, MD, PhD; prof. Katarina Vukojević, MD, PhD; Assist.prof. Natalija Filipović, MDVet, PhD; Antonia Jeličić Kadić, MD, PhD; Milka Jerić, MD; Ana Vuica, MD; Nikola Ključević, MD.	Type of instruction (number of hours)	L	S	E	T	
			52	53	70	175	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and explain fundamental concepts of systemic and topographic human anatomy• to apply fundamental anatomical knowledge and concepts to defined topographic anatomy units• to apply fundamental anatomical knowledge and concepts to anatomy dissection• to recognize (and adapt to) the need for continuing learning and acquiring knowledge relating to structures of the human body, to keep pace with future studies of dental medicine• to recognize (and adapt to) the need for continuing independent (and collaborative) learning and acquiring knowledge relating to structures of the human body to improve standards and levels of oral health in population during professional involvement						
Course content broken down in detail by weekly class schedule (syllabus)	The aims include covering the description of macroscopic characteristics of the principle body structures and organs through systemic and topographic approaches. In a systemic approach organs are grouped according to their common function. The focus of teaching is on the basic an common anatomical principles important for understanding the structure and the function of the human body. In addition to the systemic approach, the topographic anatomy is also represented and includes studying of characteristics of organs and organ						

	<p>systems in relation to their position in the body and their relations to the nearby structures. In topographic (regional) approach the organs are grouped according to their location and position in the body.</p> <p>In practice all organs belong to an anatomical region and are part of a body system. Teaching units are organized so they cover topographic anatomy of the head, neck, upper limb, trunk and lower limb. The program includes:</p> <p>Principles of osteology, arthrology, myology, splanchnology, angiology, neurology, bones and joints of the trunk, bones and joints of the upper and lower limbs, neurocranium and viscerocranium, principles of organization of the central and peripheral nervous system, principles of cardio-vascular system and heart and following topographic anatomy blocks: Face regions, Temporal regions and ear, Orbital regions and eye, Nasal region and cavity, Oral cavity, Carotid triangle, Anterior neck regions, Lateral and posterior neck regions, Topographic anatomy of Pectoral region, arm, forearm and hand, Topographic anatomy of Thorax, Abdomen, Pelvis and Topographic anatomy of lower limb (muscles, vessels, nerves and lymph).</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous assessment (28 short written and oral exams) during the duration of teaching block, partial written exams, final written, practical and oral exams					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Križan, Z., Kompedij anatomije čovjeka, II dio, Pregled građe glave,vrata i leđa za studente opće medicine i stomatologije, Zagreb, Školska knjiga 1999.					
	Bajek, S., Bobinac, D., Jerković, R., Malnar, D., Marić, I. Sustavna anatomija čovjeka , Rijeka, Digital					

	point, 2007.		
	Sobotta. Atlas anatomije čovjeka . Zagreb: Naklada Slap 2013		
	Gilroy AM, MacPherson BR, Ross LM. Anatomski atlas s latinskim nazivljem, Zagreb, Medicinska naklada, 2011. Netter FH. Atlas der anatomie des menschen . Basel: Novartis, 1998.		
Optional literature (at the time of submission of study programme proposal)	Moore, K.L. and Dalley, A.F.: Clinically oriented anatomy, 4. izd. Lippincott Williams & Wilkins, 1999. Snell R.S. Clinical anatomy. 7. izd. Philadelphia (PA): Lippincott Williams & Wilkins; 2003.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Hystology and Embriology					
Code		Year of study	1st				
Course teacher	Prof. Mirna Saraga Babić, MD, PhD	Credits (ECTS)	8				
Associate teachers	Assist. Prof. Sandra Kostić, MSc; Prof. Damir Sapunar, MD, PhD; Assist. Prof. Livia Puljak, MD, PhD; Assist. Prof. Snježana Mardešić, MD, PhD; Svjetlana Došenović, MD;	Type of instruction (number of hours)	L	S	E	T	
			30	35	35	100	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course	<ul style="list-style-type: none">to describe and explain the development of the human bodyto identify and explain specific periods in the development: embryonic and						

(4 to 10 learning outcomes)	<div>fetal periods</div> <ul style="list-style-type: none">to identify, name and describe anomalies in the human body developmentto identify, name and describe the morphologic characteristics of the tissues and organsto compare the similarities and differences in the morphology of the tissues and organsto prepare the histologic slides using appropriate methodsto describe the normal microscopic anatomy of the human body, and use the acquired knowledge for understanding and predicting the function of specific organs and tissues in the bodyto describe and explain the morphologic characteristics of the organs and tissues and use the acquired knowledge for understanding and predicting morphologic and pathologic changes in the tissues at the microscopic levelto construct and analyze diagrams showing relations between two or more parameters, predict behavior of the system in changed conditions					
Course content broken down in detail by weekly class schedule (syllabus)	General and special embryology, general and special histology.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Junqueira LC, Carneiro J. Basic Histology (text & atlas), 13 th ed. Mc.Graw-Hill					
	Sadler TW. Langman’s Medical Embryology, 12 th ed. Lippincott Williams & Wilkins					
Optional literature (at the time of submission of study	Sobotta. Histology: A Color Atlas of Microscopic Anatomy. Baltimore: Williams & Wilkins, 2004					

programme proposal)	
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Dental anatomy and dental anthropology					
Code		Year of study	1st				
Course teacher	prof. Katarina Vilović, MD, PhD	Credits (ECTS)	7				
Associate teachers	Darko Kero, DMD, PhD; Nikica Pirović, DMD, MSc; Danijela Kalibović Govorko, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			20	10	60	90	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	• to demonstrate the use of appropriate terminology in dentistry during the practical classes						
	• to describe the crown and root shape of every type of permanent and deciduous teeth and accordingly identify specimens of extracted human permant and deciduous teeth						
	• to compare the differences between permanent and primary dentition						
	• to describe the time-table of tooth epruption in both primary and permanent dentition						
	• to describe relations between upper and lower dental arches						
	• to compare and analyze ontogenetic and phylogenetic development of human and animal dentition (mammals, reptiles, fish)						
	• to describe dental tissues on histological level						

	<ul style="list-style-type: none">• to discern link between the shape of specific tooth and its function• to recognize various dental anomalies (shape, number and position of teeth)• to carve out of plaster blocks every type of permanent and deciduous teeth crowns, as well as to make the wax-up of crowns on plaster cast models in actual size					
Course content broken down in detail by weekly class schedule (syllabus)	Course content includes topics on the macroscopic structure of permanent and deciduous teeth, their emergence, embryonic development of teeth and occlusal relationships according to basic classifications currently used in dental medicine. The study of individual teeth includes morphological aspects of the tooth crown and root parts, as well as their relations iwithin the dental arch and surrounding alveolar bone. Dental anatomy is fundamental for both clinical dentistry and scientific research. Terminology in dental anatomy will be presented in detail considering the properties of the crown and root of permanent and deciduous teeth, in order to determine features for identical group of teeth and an individual tooth within the dental arch. Difference between permanent and deciduous teeth will be determined, as well as their relations within and between the dental arches. Properties of teeth that may affect the health of the supporting structures will be appropriately highlighted, especially the aproximal surfaces and contacts, marginal ridges and height and shape of the lateral recesses. The time-table of eruption in deciduous and permanent dentition. A thorough knowledge of endodontic spaces anatomy is fundamental for a san effective treatment approach in restorative dentistry and endodontics.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Hraste J Dentalna morfologija; Školska knjiga, Zagreb 1981.					

	Handout prema Berkovitz, B.K.B., Holland, G.R., Moxham, B.J. Oral Anatomy, Histology and Embriology, third Edition, Mosby, Edinburgh, 2002., poglavlja 2 (Dento-osseous structures), 21 (Early tooth development), 22 (Amelogenesis), 23 (Dentinogenesis) i 26 (Development of the dentitions)		
	http://academicearth.org/courses/dental-anatomy (lectures 6 - 18)		
	http://www.mefst.hr/default.aspx?id=889 (modelacija u gipsu)		
Optional literature (at the time of submission of study programme proposal)	1. Brown P. & Herbranson E. And Quintessence Publishing Co. Inc., Dental Anatomy 3D Interactive Tooth Atlas, Version 3.0, Portola Valley, USA, 2004 2. <u>Brand W. R., Isselhard, D. E., Anatomy of Orofacial Structures, Seventh Ed., Mosby, St. Louis, USA, 2003</u> 3. Smith P., A Quicktime Database of the Human Dentition		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Physiology					
Code		Year of study	2nd				
Course teacher	Prof. Zoran Valić, MD, PhD	Credits (ECTS)	11				
Associate teachers	Prof. Željko Dujić, MD, PhD; Assoc. Prof. Darija Baković, MD, PhD; Assoc. Prof. Jasna Marinović, MD, PhD; Assoc. Prof. Marko Ljubković, MD, PhD; Assist. Prof. Vladimir Ivančev, MD, PhD; Assist. Prof. Ante Obad, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			6	83	51	140	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the	Not applicable.						

course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> to identify, describe and explain the most important characteristics of neuromuscular, cardiovascular, respiratory, kidney, gastrointestinal and endocrine system at the level of the cell, organ and whole body to describe, discriminate and explain control mechanisms (negative and positive feedback loops) critical for homeostasis to name and explain changes that occur in each system as a consequence of deviation of parameters within and outside of physiological limits to critically judge educational materials (textbooks and lectures), participate in argumentative discussions and construct opinions to apply adopted knowledge to predict function of system in the future to compare similarities and differences in function between different systems in our body to use acquired theoretical knowledge for solving practical problems to perform and practice measurement of selected physiological parameters, and explain collected results to construct and analyze diagrams showing relations between two or more parameters, predict behavior of the system in changed conditions 					
Course content broken down in detail by weekly class schedule (syllabus)	Introduction to Physiology: The Cell and General Physiology; Blood Cells and Blood Clotting; Membrane Physiology, Nerve, and Muscle; The Heart; The Circulation; The Kidneys and Body Fluids; Respiration; Environmental Physiology; Gastrointestinal Physiology; Metabolism and Temperature Regulation; Endocrinology and Reproduction; Sports Physiology.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam and/or oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	1. Guyton – Hall: Fiziologija, 12. izd., Medicinska naklada, Zagreb, 2012.					

Optional literature (at the time of submission of study programme proposal)	1. Berne-Levy: Fiziologija kroz prikaze bolesnika, 3. izd., Medicinska naklada, Zagreb, 1997. 2. Berne-Levy: Fiziologija, 3 izd., Medicinska naklada, Zagreb, 1996.
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Year of study	2nd				
Course teacher	Prof. Irena Drmić Hofman, PhD	Credits (ECTS)	7				
Associate teachers	Assoc. Prof. Anita Markotić, PhD; Assist. Prof. Vedrana Čikeš Čulić, PhD; Angela Mastelić, MSc; Nikolina Režić Mužinić, MSc;	Type of instruction (number of hours)	L	S	E	T	
			25	35	25	85	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to comprehend the general understanding of the major types of biochemical molecules, including small, large and supermolecular components found in cellsto recognize and describe the different types of biochemical molecules and know their essential chemical characteristics that make them indispensable for lifeto describe and explain basic energy metabolism of cellsto explain the structure of DNA and RNA and why these molecules have different roles in the storage and decoding of the information of heredity and cell functionto explain the fundamentals of regulation of gene expressionto identify some of common reaction mechanisms in biochemical processes (carbohydrate, lipid and protein metabolism)to describe how enzymes work and know how to determine basic enzyme kineticsto describe and explain the main concepts on how cells function and integrate biochemical reactions at tissue levelto comprehend the role biochemistry in the practice of medicine, and oral						

	biochemistry in dental medicine and medical research					
Course content broken down in detail by weekly class schedule (syllabus)	General and oral biochemistry as well as pathobiochemistry					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library		Availability via other media
	Murray RK, Bender DA, Boatham KM, Rodwell VW, Weil PA: Harper's Illustrated Biochemistry, 29 th edition, MC Graw Hill Comp, 2012.					
Optional literature (at the time of submission of study programme proposal)	Lieberman M, Marks AD. Mark's Basic Medical Biochemistry a Clinical Approach Fourth. Ed., Lippincott Williams & Wilkins, 2013.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Neuroscience in dental medicine				
Code		Year of study	2nd			
Course teacher	Prof. Zoran Đogaš MD, PhD	Credits (ECTS)	5			
Associate teachers	Prof. Maja Valić, Md, PhD; Prof. Ivica Grković, MD, PhD.; Assist. Prof. Renata Pecotić, MD, PhD; Ivana Pavlinac Dodig, MD, PhD; Ivona Stipica, MD; Assist. Prof. Nenad Karanović, MD, PhD; Assist. Prof. Mladen Carev, MD, PhD; Linda Lušić, MSc;	Type of instruction (number of hours)	L	S	E	T
			14	21	20	55
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to enumerate, identify and describe the morphological characteristics of the structure of the central nervous system, the midbrain, telencephalon, peripheral nervous system and spinal cord and explain their functionto describe basic electrophysiological characteristics of the neurons, explain the mechanism of membrane resting potential, action potential and postsynaptic potential generationto describe the mechanism of information transfer between neurons, classify and explain the basic characteristics and mechanism of action of neurotransmitters, and describe the structure of different type of ligand gated receptors and discuss their role in information transfer between neuronsto describe, explain, and outline organization of sensory and motor system and apply adopted knowledge in solving practical clinical problemsto describe and explain organization and neurophysiological characteristic of complex brain functions: sleep and wake and mechanisms of neural control of breathingto associate knowledge about the structure, function and organization of the nervous system with the ability to self-solve specific problems in health care in the field of dental medicine					
Course content broken down in detail by weekly class schedule	Basic brain morphology – cerebral cortex, deep brain structures; cellular and molecular neuroscience; synaptic transmission; sensory system; pain (pathways, receptors); motor system; general and complex brain functions					

(syllabus)						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library		Availability via other media
	Judaš, M. i Kostović, I.: Temelji neuroznanosti, 1. izd. MD; Zagreb, 2005. (slobodan web pristup), selected chapters.					
	Đogaš i sur.: Vodič kroz vježbe iz temelja neuroznanosti, Split, 2004.					
	Purves D et al.: Neuroscience, 5th edition, Sinauer Associates INC, USA. (selected chapters).					
Optional literature (at the time of submission of study programme proposal)	Kandel, E.R., Schwartz, J.H. i Jessel, T.M.: Principles of the neural science, 4.ed., McGraw-Hill; New York, U.S.A., 2000					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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	Medical microbiology and parasitology
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Code			Year of study	2nd			
Course teacher	Assoc. prof. Marija Tonkić, MD, PhD		Credits (ECTS)	6			
Associate teachers	Assist. prof. Ivana Goić-Barišić, MD, PhD; Anita Novak, MD; Katarina Šiško Kraljević, MD, PhD; Žana Rubić, MD; Marina Radić, MD; Vanja Kaliterna, MD, PhD; Merica Carev, MD;	Type of instruction (number of hours)	L	S	E	T	
			20	20	35	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to state and describe the most important biological characteristics of normal human flora and pathogenic microorganisms (bacteria, viruses, fungi and parasites)• to describe the roles of normal human microbial flora• to describe mechanisms of transmission of microorganisms, as well as the pathogenesis and prevention methods of infectious diseases• to describe the basic mechanisms of immune defense and vaccines• to describe sterilization and disinfection methods• to explain pathogenesis of oral infectious diseases• to perform sampling of nose, throat and gingiva bacterial smears• to adequately select and perform basic microbiological diagnostic methods and to critically interpret their results						
Course content broken down in detail by weekly class schedule (syllabus)	Bacteriology, Mycology, Virology, Parasitology.						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities	According to Study Regulations						
Screening student work (<i>name the proportion of ECTS credits for each</i>)	Class attendance		Research		Practical training		
	Experimental work		Report		(Other)		

<i>activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Partial written exams, written exam, practical exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Presečki V. Stomatološka mikrobiologija. Zagreb: Medicinska naklada; 2009.					
Optional literature (at the time of submission of study programme proposal)	Bagg J, MacFarlane TW, Poxton IR, Smith AJ. Essentials of Microbiology for Dental Students. 2. izd. Oxord: Oxford University Press; 2006.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Pathology					
Code		Year of study	2nd				
Course teacher	Prof. Valdi Pešutić Pisac, MD, PhD	Credits (ECTS)	9				
Associate teachers	Prof. Snježana Tomić, MD, PhD; Prof. Meri Glavina Durđov, MD, PhD; Prof. Ivana Kuzmić Prusac, MD, PhD; Assist. prof. Gea Forempoher, MD, PhD; Joško Bezić, MD, MSc; Ivana Mrklič, MD, PdD; Sandra Zekić Tomaš, MD, PdD; Dinka Šundov, MD, PdD; Nenad Kunac, MD;	Type of instruction (number of hours)	L	S	E	T	
			30	45	45	120	
Status of the course	Mandatory	Percentage of	0%				

		application of e-learning				
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to identify, describe and explain the most important characteristics of the basic pathological processes on cellular, tissue and organ level• to describe, discriminate and explain key control mechanisms underlying the inception and progression of disease, as well as to explain the functional consequences of the morphological changes• to name and explain pathology of illnesses occurring in different organs• to compare pathological features of illnesses with features of normal physiology with respect to the function of the organism• to use acquired theoretical knowledge for solving practical clinical problems, and to be able to constructively participate in professional medical discussions					
Course content broken down in detail by weekly class schedule (syllabus)	<p>General pathology: Cellular injury and adaptations, inflammation and repair, fluid and hemodynamic derangements, genetic disorders, diseases of immunity, neoplasia, diseases of infancy and childhood.</p> <p>Pathology of organs and organ systems: cardiovascular pathology, pathology of lung, hematopathology, gastrointestinal pathology, pathology of the liver and pancreas, genitourinary pathology, pathology of the breast, endocrine system, bones, joints, peripheral nerves, skeletal muscle and central nervous system.</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student 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)	Damjanov I, Seiwerth S, Jukić S, Nola M. Patologija. IV izdanje. Zagreb: Medicinska naklada; 2014.		
	CD-rom. Patologija. Medicinski fakultet Zagreb-Kansas School of medicine.		
Optional literature (at the time of submission of study programme proposal)	Damjanov I, Fenderson BA, Rubin E, Nola M, Dominis M, Jukić S. Patologija za studente medicine s ispitnim pitanjima i odgovorima, prevedeno i nadopunjeno prema američkom izdanju <i>Pathology study guide</i> , Medicinska naklada Zagreb 2001.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Scientific research 2					
Code		Year of study	2nd				
Course teacher	Prof. Ana Marušić, MD, PhD	Credits (ECTS)	1				
Associate teachers	Prof. Matko Marušić, MD, PhD; Prof. Zoran Đogaš, MD, PhD; Assist. Prof. Ana Jerončić, PhD; Assist. Prof. Ivana Kolčić; Irena Zakarija Grković, MD, PhD; Mario Malički, MD; Tina Poklepović Peričić, DMD; Lana Bošnjak, MS; Ana Utrobičić, BA; Frane Mihanović, MS;	Type of instruction (number of hours)	L	S	E	T	
			5	5	10	20	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						

Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to recognize different study designs• to code and enter data in a database• to test the distribution of data• to perform statistical analysis of data• to choose and execute statistical tests appropriate for study design and research question• to calculate clinical outcome results specific for the study design• to organize, synthesize and present (graphically and tabular) results of data analysis• to present the study and its results in oral and written presentation					
Course content broken down in detail by weekly class schedule (syllabus)	Application of knowledge and skills acquired during the first course year to concrete examples from clinical studies. The course is organized on the principles of team learning and as problem based learning (total of 5 h lectures, 5 h seminars and 10 h practicals).					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	The course exam has three components: continual formal written evaluation of 1) knowledge and 2) skills and 3) an integrated written test at the end of the course. All course assignments are graded, and the final score ranges from 0 to 100% so that 60% of the score comes from the evaluations during the course and 40% from the final written test. Grades are awarded according to the following criteria: 0-55 - fail, 56-65 - satisfactory, 66-75 - good, 76-85 - very good, ≥86 - outstanding.					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Marušić M, ur. Uvod u znanstveni rad u medicini. 4. izdanje. Zagreb: Medicinska naklada; 2013.					
	Kern J, Petrovečki M, ur. Medicinska informatika. Zagreb: Medicinska naklada; 2009.					
	Ferenczi E, Muirhead N. Statistika i epidemiologija u jednom potezu. Zagreb: Medicinska naklada; 2011.					
	Nastavni materijali za pojedine nastavne jedinice					
Optional literature	1. Day RA, Gastel N. How to write and publish a scientific paper, 6th edition.					

(at the time of submission of study programme proposal)	<p>Westport (CT): Greenwood Press; 2006.</p> <p>2. Lang T, Secic M. How To report statistics in medicine: annotated guidelines for authors, editors, and reviewers, 2nd edition. Philadelphia (PA): American College of Physicians; 2006.</p> <p>3. Hoyt RE, Yoshihashi A, Sutton M. Medical informatics: practical guide for the healthcare professional. Third edition e-book. Lulu.com, 2009.</p> <p>4. Ogrinc GS, Headrick LA. Fundamentals of health care improvement. Oakbrook Terrace (IL): USA Joint Commission Resources; 2008.</p> <p>5. Committee on Assessing Integrity in Research Environments. Integrity in scientific research. Washington, DC: Institute of Medicine and National Research Council; 2002.</p>
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Ethics in dental medicine				
Code		Year of study	3rd			
Course teacher	Darko Kero, DMD, PhD	Credits (ECTS)	2			
Associate teachers		Type of instruction (number of hours)	L	S	E	T
			10	20	0	30
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to analyze basic ethical challenges caused by rapid scientific and technological advancement of dental medicine• to explain ethical principles in determining the societal roles and obligations of dental medicine professionals• to analyze moral admissibility of clinical procedures in dental medicine• to recognize emerging ethical dilemmas in the field of scientific research related to dental medicine• to describe different types of approach of dental professionals toward patients (paternalistic, cooperative)					

	● to recognize ethical problem during the practical clinical courses				
Course content broken down in detail by weekly class schedule (syllabus)	Fundamental ethical concepts (ethics, morality, professional ethics, deontology), ethics of dental medicine in science and its relation to bioethics; Dental medicine as a profession, relationship of ethics and profession, methods of medical ethics and bioethics, documents which regulate duties of medical and health professionals (Hippocratic oath, Geneva Declaration, the Declaration of Helsinki, the code of ethics and deontology of dental medicine, quality of life (theoretical and practical approaches) ; the essential features and factors in ethical decision-making, ethical theories: deontology, utilitarianism and virtue ethics, principles for the protection of physical life, bioethical principles: wider and narrower definition, the principle of autonomy, harmlessness, beneficence and justice, bioethical principles and moral practice - case studies practices, privacy and trust, professional secrecy, relationship dentists according to different categories of patients.				
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations				
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training
	Experimental work		Report		(Other)
	Essay		Seminar essay		(Other)
	Tests		Oral exam		(Other)
	Written exam		Project		(Other)
Grading and evaluating student work in class and at the final exam	Essay				
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media
	Ozar, David and Sokol, David (2002) Dental Ethics at Chairside: Professional Principles and Practical Applications (second edition). Washington D.C.: Georgetown University Press.				
	Williams, Johns (2007) Priručnik etike dentalne medicine World Dental Federation. Ferney-Voltaire: FDI. Elektronička verzija: http://www.fdiworldental.org/content/fdi-dental-ethics-manual . Hrvatski prijevod dostupan na: http://www.hsk.hr/adminmax/File/PSE%20-%20final.pdf				
	Williams, Johns (2007) Priručnik etike dentalne				

	<p>medicine World Dental Federation. Ferney-Voltaire: FDI. Elektronička verzija: http://www.fdiworldental.org/content/fdi-dental-ethics-manual. Hrvatski prijevod dostupan na: http://www.hsk.hr/adminmax/File/PSE%20-%20final.pdf</p>		
Optional literature (at the time of submission of study programme proposal)	<p>Načela etike i kodeks profesionalnog ponašanja Američkog stomatološkog udruženja. Elektronička verzija: http://www.ada.org/prof/prac/law/code (Prevela G. Cerjan-Letica).</p>		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Psychological medicine					
Code		Year of study	2nd				
Course teacher	Assoc. Prof. Dolores Britvić, MD, PhD	Credits (ECTS)	3				
Associate teachers	Assoc. Prof. Mirela Vlastelica, MD, PhD; Assist.Prof. Slavica Jurčević, MD PhD; Varja Đogaš, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			5	11	24	40	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to identify and explain psychological mechanisms• to describe psychological development• to identify and describe patient's psychological response and adaptation to different diseases• to describe and detect high risk patients for development pathological psychological reactions• to describe and aply communication skills for patients with high risk for						

	developmental pathological psychological reactions					
	<ul style="list-style-type: none">to describe characteristics of appropriate patient- doctor relationshipto apply empathy in relationship with patients, their family members, doctors, nurses					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Psychological medicine – general concepts: Health and disease; Psychological and somatic health; Personality development – basic concepts of developmental psychology; Psychodynamic development concept; Object relationship; Attachment theory, Cognitive development; Infancy; Early childhood; Latency; Adolescence; Middle age; Old age; Mental mechanisms; Anxiety; Personality structure; Defence mechanisms.</p> <p>Psychological medicine – particularities: Patient’s story and problem-based learning; Patient’s response to disease; Transference; Resistance;Countertransference; Somatic and psychosomatic diseases; Terminal disease; Patient and chronic disease; Adolescent and somatic disease; Geriatric patient; Clinical interview; Empathy; Counter-transference; Patient-doctor relationship; Case history; Teamwork in medicine and liason psychiatry; Group dynamics; Psychotherapeutic approach in medicine.</p> <p>In health institutions, specific communication skills are emphasized, with persons in specific conditions, with invalid persons what is common in treatment process.</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Klain E. Psihološka medicina. Golden Marketing, Zagreb, 1999.					

Optional literature (at the time of submission of study programme proposal)	1. Mayou R, Sharpe M, Carson A: ABC in Psychological Medicine, BMJ Publishing, London, 2002. 2. Coulehan JL, Block MR: The Medical Interview: Mastering Skills for Clinical Practise, 4th ed., FA Davis Company, Philadelphia, 2001.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Year of study	2nd				
Course teacher	Assoc. Prof. Tina Tičinović Kurir, MD, PhD	Credits (ECTS)	7				
Associate teachers	Prof. Dragan Ljutić MD, PhD; Andre Bratanić MD, PhD; Assist. Prof. Anteo Bradarić, MD, PhD; Joško Božić, MD;	Type of instruction (number of hours)	L	S	E	T	
			30	35	25	90	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to analyze the specific states of organism, especially normal function and complete reaction of the organism to disturbancesto explain pathophysiologic principles of diseasesto describe the main pathophysiological processes at the cellular levelto describe and explain the disruption of homeostatic mechanismsto describe the mechanism of inflammationto explain the basic pathophysiological processes of individual organ systems						

Course content broken down in detail by weekly class schedule (syllabus)	Pathophysiology of homeostasis, the general principles of the disease, and pathophysiology of organ systems with their connection and integration at the level of the whole organism.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Gamulin S., Kovač Z., Marušić M.: Patofiziologija VII izdanje Medicinska naklada, Zagreb, 2011.					
Optional literature (at the time of submission of study programme proposal)	Harrison's Principles of Internal Medicine, 15th Edition, McGraw-Hill, SAD, 2004.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Pharmacology			
Code		Year of study	2nd		
Course teacher	Prof. Mladen Boban, MD,	Credits (ECTS)	7		

	PhD					
Associate teachers	Prof. Darko Modun, MD, PhD; Assist Prof. Ivana Mudnić, MD, PhD; Grgo Gunjača, MD; Iva Jerčić, MD;	Type of instruction (number of hours)	L	S	E	T
			20	40	30	90
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and explain the general principles of drug actions (pharmacodynamics) and fate of drugs in organism (pharmacokinetics)• to describe mechanisms of drugs actions• to list therapeutic and side effects, administration procedures, main indications and contra-indications for individual groups of drugs used in dental medicine• to list characteristics of the drugs that are illustrative examples of individual pharmacotherapeutic groups and subgroups• to name and explain proper procedure and selection of drugs used by patient and the drugs prescribed or applied by a doctor of dental medicine• to properly write prescriptions for different pharmaceutical formulations of drugs• to list and describe the main phases of new drugs development (pre-clinical, clinical phases I-IV, process of new drugs market approval)					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Aims and tasks of the course include introduction of the students with fundamental principles of basic and special Pharmacology and rational pharmacotherapy with particular attention to the drugs in dental medicine.</p> <p>Basic pharmacology encompasses: drug absorption, distribution, metabolism and elimination, pharmacokinetics, pharmacodynamics, side effects, new drugs development, drugs affecting cholinergic and adrenergic systems.</p> <p>Special pharmacology encompasses: disinfectants, antiseptics for soft and hard oral cavity tissues, antimicrobial chemotherapy, drugs used in endodontics, drugs applied on oral mucosa and the drugs that increase teeth resistance to caries. Drugs from pharmacotherapeutic groups that are commonly used in everyday dental practice: local anesthetics, sympathomimetics, antimuscarinic drugs, general anesthetics, anxiolytic drugs, antihistamines, corticosteroids,</p>					

	hemostyptics.					
	For pharmacotherapeutic groups that doctors of dental medicine do not use in their practice, students are acquainted with pharmacodynamic and pharmacokinetic properties of each pharmacotherapeutic group, as well as possible side effects in orofacial region and interactions with drugs ordained by a doctor of dental medicine.					
	Drugs prescription includes learning of pharmaceutical formulations, legislation and rules about drugs prescription, distribution and traffic.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Requirements for taking the final exam is orderly attendance to all teaching activities during the course of Pharmacology and completed practical test in drugs prescribing. The exam is composed of the written test and oral exam that equally contribute to the final mark. Successful completion of the written test is prerequisite for the oral exam. Written exam contains 90 questions. Minimum of 50 correct answers/ points are required for passing.					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Farmakologija za stomatologe, Ileana Linčir i sur., 3. Obnovljeno i dopunjeno izdanje. Medicinska naklada, Zagreb 2011.					
	Bradamante V; Klarica M; Šalković-Petrišić M, urednici. "Farmakološki priručnik". Zagreb, Medicinska naklada, 2008.					
Optional literature (at the time of submission of study programme)	Katzung BG, Masters S, Trevor AJ, urednici. "Temeljna i klinička farmakologija", 1. hrvatsko izdanje, Zagreb, Medicinska naklada, 2011. (Basic and Clinical Pharmacology. 11th edition. New York: McGraw-Hill Medical; 2009.)					

proposal)	
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		General radiology and radiology of orofacial region					
Code		Year of study	3rd				
Course teacher	Prof. Ante Buča, MD, PhD	Credits (ECTS)	3				
Associate teachers	Prof. Liana Cambj-Sapunar, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
	Prof. Igor Barišić, MD, PhD; Assist. Prof. Tade Tadić, MD, PhD;						
	Assist. Prof. Tonči Batinić, MD, PhD;		15	10	25	50	
	Gordana Glavina, MD; Krešimir Kolić, MD;						
	Ivana Štula, MD, PhD;						
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to explain the principle of x-ray radiation and ways of protection against ionizing radiationto describe the acquisition of the radiograph, object enlargement and deformation margins on radiographsto provide relevant imaging methods of examination of the orofacial areato describe the principles of radiology of jaws and teeth and various types of radiographic imagesTo identify the anatomical structures on the radiographsto identify and show anomalies and defects of teeth, pathological						

	changes of alveolar bone, tooth decay, enamel wear, root resorption and widening of periodontal membrane as seen on radiographs <ul style="list-style-type: none">• to describe basic principles of radiographic imaging of paranasal sinsuses, orbits, salivary glands, TMJ and pharynx• to explain the correlation between morphological changes seen on radiographs and clinical status• to explain methods of protection against ionizing radiation					
Course content broken down in detail by weekly class schedule (syllabus)	The aim of the course is to acquaint the student of dental radiological examination methods, radiological anatomy of certain tissues, organs and organ systems, and radiological signs of pathological changes. The emphasis is on osteoarticular radiology and radiology of the jaws and teeth. Special attention is paid to conventional radiography of the jaws and teeth including technique of examination, because the dentist often to perform and interpret radiological examination of the region. The introductory section includes radiological imaging methods, radiological devices (especially for dental radiography), x-ray physics and protection against ionizing radiation, and introduction to radiology, hospital information systems and systems for digital archiving images (PACS), In general radiographic part deals with radiology individual organ systems in summary form according to the requirements of the study, a somewhat larger part of the course is devoted to osteoarticular radiology. The dental section elaborates in detail with radiological anatomy of the jaw and teeth, pathologic conditions including developmental abnormalities, inflammatory and degenerative processes, traumatic lesions and tumors of the area.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Jankovic S, Miletic D. Radiografija i radiologija orofacijalnog područja. Medicinski fakultet					

	Sveučilišta u Splitu, Split, 2009.		
	Janković S. Seminari iz kliničke radiologije. Medicinski fakultet Sveučilišta u Splitu, Split, 2005. (samo poglavlja: 8. i 11.)		
Optional literature (at the time of submission of study programme proposal)	1. Janković S, Eterović D ur.: Fizikalne osnove i klinički aspekti medicinske dijagnostike. Medicinska naklada, Zagreb, 2002.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Internal medicine					
Code		Year of study	3rd				
Course teacher	prof. Jugoslav Bagatin, MD, PhD	Credits (ECTS)	110				
Associate teachers	prof. Miroslav Šimunić, MD, PhD; prof. Damir Fabjanić, MD, PhD; prof. Ante Tonkić, MD, PhD; Assist. prof. Ivica Vuković, MD, PhD; prof. Kornelija Miše, MD, PhD; prof. Dragan Ljutić, MD, PhD; Assist. prof. Nediljko Pivac, MD, PhD; Assist. prof. Mladen Krnić, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			55	0	55	110	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course	<ul style="list-style-type: none">to describe pharmacokinetics and pharmacodynamics of the most commonly used drugs (especially periorally administered						

(4 to 10 learning outcomes)	<p>anticoagulants)</p> <ul style="list-style-type: none">• to describe symptoms and clinical signs of the most common diseases in internal medicine• to list all phases and procedures required for making correct diagnosis (medical history, clinical examination, laboratory tests, radiographic imaging, ultrasound, etc.)• to list and explain application, main indications, counter-indications, side-effects and interactions of the most commonly used medicaments for treatment of hypertension, blood vessel thrombosis and pneumonia• to explain validity and rationality of antimicrobials usage with respect to development of microbial drug resistance• to explain importance of pharmacoeconomics				
Course content broken down in detail by weekly class schedule (syllabus)	Cardiology, Gastroenterology, Endocrinology, Hematology, Pulmology, Nephrology, Rheumatology and Clinical Immunology.				
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations				
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training
	Experimental work		Report		(Other)
	Essay		Seminar essay		(Other)
	Tests		Oral exam		(Other)
	Written exam		Project		(Other)
Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam				
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media
	B. Vrhovac i sur. Interna medicina. Medicinska naklada, Zagreb, 2008.				
	Metelko Ž, Harambašić H i sur. Internistička				

	propedeutika i osnove fizikalne dijagnostike. Medicinska naklada, Zagreb, 1999.		
	I. Hozo i sur. Propedeutika interne medicine		
Optional literature (at the time of submission of study programme proposal)	1. Polić S, Bagatin J i Lukin A, ur. Odabrana poglavlja iz kardiovaskulnog lječenja. Jedinica za znanstveni rad, Split, 2004. 2. Hozo I, Miše S, ur. Odabrana poglavlja iz gastroenterologije. Jedinica za znanstveni rad, Split, 1999.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Infectology					
Code		Year of study	3rd				
Course teacher	prof. Nikola Bradarić, MD, PhD;	Credits (ECTS)	2				
Associate teachers	prof. Boris Lukšić, MD, PhD; asist prof. Dragan Ledina, MD, PhD; prof. Ivo Ivić, MD, PhD; Dominko Carev, MD, PhD; Nikica Kuzmičić,MD	Type of instruction (number of hours)	L	S	E	T	
			16	20	4	40	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to discern various infectious diseases, their clinical signs and symptoms, epidemiological distribution, diagnostic tools and treatment protocols• to explain the principles of antimicrobial therapy• to explain the principles of treatment of patients with infectious diseases of oral cavity• to explain the principles of treatment of HIV infections and viral hepatitis• to explain the principles of prevetion, treatment and control of oral						

	infectious diseases					
Course content broken down in detail by weekly class schedule (syllabus)	Basic concepts of general infectology, the most frequent infectious diseases and clinical syndroms they causes, the most infectious diseases of oral cavity, principles of diagnostics, rational antimicrobial therapy and prophylaxis of infectious diseases, infections in immunocompromised patients.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library		Availability via other media
	Infektologija za stomatologe. Uredinici:Beus I, Škerk V. Zagreb, Grafis, 2002.					
Optional literature (at the time of submission of study programme proposal)	Essentials of microbiology for dental students. Editors: Bagg J, McFarlane TW, Poxton IR, Smith AJ. Oxford univerty press, Glasgow/Edinburgh 2004.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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	Anaesthesiology and intensive care medicine
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Code		Year of study	3rd			
Course teacher	assist. prof. Nenad Karanović, MD, PhD	Credits (ECTS)	3			
Associate teachers	asist. prof. Mladen Carev, MD, PhD; assist. prof. Marko Jukić, MD, PhD; assist. prof. Mihajlo Lojpur, MD, PhD; Vjera Marinov, MD, PhD; Božena Ivančev, MD, PhD; Ivan Agnić, MD, PhD; Božidar Duplančić, MD, MSc; Dragica Kopic, MD, MSc; Željko Ninčević, MD, MSc; Dubravka Kocen, MD, MSc	Type of instruction (number of hours)	L	S	E	T
			13	17	20	50
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to name and explain the way of administration, indications and contraindications, as well as side-effects of various drugs representing miscellaneous groups and subgroupsto identify, describe and explain the most important characteristics of neuromuscular, cardiovascular, respiratory, kidney, gastrointestinal and endocrine systemto describe, differentiate and explain management of treatment procedures in Intensive care unitsto describe, differentiate and explain conducting of procedures for various painful situations and procedures of vital signs monitoringto describe, differentiate and explain procedures of basic and advanced life supportto describe, differentiate and explain procedures of organ donation and transplantation					
Course content broken down in detail by weekly class schedule (syllabus)	History and theories of anesthesia. Pathophysiology of multiple organ failures. Reanimatology and intensive care of critically ill or injured patients. Anesthesia procedures. Pharmacology of agents used in anesthesia, intensive care and treatment of pain. Basic information on organ harvesting, and therapy of pain.					

Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Jukić M, Majerić Kogler V, Husedžinović I, Sekulić A, Žunić J., Kvolik S. Klinička anesteziologija. Zagreb: Medicinska naklada; 2012.					
	Jukić M, Gašparović V, Husedžinović I, Majerić Kogler V, Perić M, Žunić J. Intenzivna medicina. Zagreb: Medicinska naklada; 2008.					
Optional literature (at the time of submission of study programme proposal)	1. Bongard FS, Sue DY ed. Current critical care diagnosis and treatment. 3rd edition. McGraw-Hill Comp; 2008. 2. Morgan GE, Mikhail MS, Murray MJ ed. Clinical anesthesiology. 5th edition. McGraw-Hill Comp; 2013.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Dermatovenerology		
Code		Year of study	3rd	
Course teacher	Prof. Neira Puizina-Ivić, MD,	Credits (ECTS)	2	

	PhD					
Associate teachers	Deny Anđelinović, Ph.D; Antonela Čarija, MD; Ranka Ivanišević, MD; Olga Kosor MD;	Type of instruction (number of hours)	L	S	E	T
			15	0	15	30
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> to recognize and describe clinical feature of the most important skin diseases to explain the treatments methods of skin diseases as well as veneral diseases to describe therapeutic approach for topical treatment to plan and implement specific local tretament to relate particular skin diseases with manifestations on the mucosa of oral cavity 					
Course content broken down in detail by weekly class schedule (syllabus)	General and special dermatology with comprehensive approach to the diagnosis and therapy: the basic structure and function of the skin and appendages, diagnosis of skin disorders, physical forms of treatment, propedeutics, local and systemic treatment in dermatology, infectious diseases of the skin (viruses, fungal and bacterial infections, infestations), sexually transmitted diseases, allergic diseases of the skin, skin reactions to light, skin damage by the physical agents, bullous dermatoses, autoimmune diseases, erythematosquamosous and papulous dermatoses, erythematous diseases, disorders of keratinization, pre-cancerous diseases and skin tumors, disorders of pigmentation, hair diseases, sebaceoous and sweat glands diseases, diseases of oral mucosa and tongue, nail disorders, disorders of bood vessels and lymphatics.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					

	Title	Number of copies in the library	Availability via other media
Required literature (available in the library and via other media)	Lipozenčić J i sur. Dermatovenerologija, Medicinska naklada, Zagreb, 2008.		
	Basta-Juzbašić i sur. Dermatovenerologija, Medicinska naklada, Zagreb, 2014.		
Optional literature (at the time of submission of study programme proposal)	Bologna JL, Jorizzo JL, Schaffer JV. Dermatology, 3rd edition, Elsevier Saunders 2012.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Oncology and tumours of orofacial region					
Code		Year of study	3rd				
Course teacher	prof. Eduard Vrdoljak, MD, PhD	Credits (ECTS)	2				
Associate teachers	assist. prof. Marijo Boban, MD, PhD; assist. prof. Tomislav Omrčen, MD, PhD; Branka Petrić Miše, MD, PhD; Tihana Boraska Jelavić, MD, PhD; Lidija Bošković, MD, MSc; Marija Ban, MD;	Type of instruction (number of hours)	L	S	E	T	
			5	10	15	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to list, describe and explain biology, etiology an epidemiology of malignant tumors with respect to orofacial regionto explain and classify malignant tumorsto recognize the symptoms of malignant tumors of orofacial region						

	<ul style="list-style-type: none">• to explain, analyze and relate various modalities of oncologic treatment (cytostatic treatment, radiotherapy, hormonal therapy, immunotherapy, gene therapy)• to design, plan and provide example of individual patient treatment options• to list and discuss unwanted side-effects of specific oncologic treatment• to critically value topics and reading materials presented on lectures and seminars					
Course content broken down in detail by weekly class schedule (syllabus)	Biology, etiology and epidemiology of the tumor, chemotherapy, radiotherapy, other specific forms of cancer treatment: hormonal therapy, immunotherapy, gene therapy, photodynamic therapy, hyperthermia, anti-angiogenesis therapies, anti-metastatic therapy), multimodal approach for the treatment of tumors, Head and neck tumors (mouth, nose and paranasal sinuses), Head and neck tumors II (pharynx), tumors of the head and neck III (larynx and salivary glands), skin tumors and melanoma, Tumors of the upper gastrointestinal tract (esophagus, stomach), lung cancer. The unintended consequences of specific oncological treatment / symptomatic supportive therapy (unwanted effects of chemotherapy, radiotherapy, bisphosphonates, targeted therapies), The unintended consequence of specific oncological treatment / symptomatic supportive therapy (pain, nausea, vomiting, hematologic toxicity), Prevention and diagnosis of malignant disease, Psychosocial aspects of cancer patients, The care of the patient with cancer terminally ill.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	In accordance to Rules of studying and Deontological code for USSM students.					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	E Vrdoljak, Z Krajina, M Šamija, Z Kusić, M Petković, D Gugić. KLINIČKA ONKOLOGIJA.					

	Medicinska naklada, Zagreb 2013		
Optional literature (at the time of submission of study programme proposal)	<ol style="list-style-type: none"> Halperin EC, Brady LW, Wazer DE, Perez CA, editors. Perez and Brady's Principles and Practice of Radiation Oncology. 6th ed. Philadelphia (PA): Lippincott, Williams & Wilkins; 2013. DeVita VT, Lawrence TS, Rosenberg SA, editors. DeVita, Hellman, and Rosenberg's Cancer: Principles & Practice of Oncology. 9th ed. Philadelphia (PA): Lippincott, Williams & Wilkins; 2012. 		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Otorhinolaryngology					
Code		Year of study	3rd				
Course teacher	Assist. Prof. Nikola Kolja Poljak, MD, PhD	Credits (ECTS)	3				
Associate teachers	Prof. dr. Goran Račić, MD, PhD; Assist. Prof. Zaviša Čolović, MD, PhD; Assist.Prof. Draško Cikojević, MD, PhD; Assist.Prof. Marisa Klančnik, MD, PhD; Assist.Prof.. Petar Drviš, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	15	45	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to participate in taking of medical history (anamnesis) and ENT exam of a patientto describe therapeutic approaches for the most common ENT diseasesto describe therapeutic algorithm of ENT emergencies						

	<ul style="list-style-type: none">• to describe symptoms of ENT malignancies• to describe treatment of ENT malignancies					
Course content broken down in detail by weekly class schedule (syllabus)	Diseases of ear (otalgia, ear channel itching, ear discharge, anomalies of the concha auriculae, deafness/hearing loss, tinnitus, dizziness), nose diseases (nose bleeding, nose deformity, nose obstruction and discharge, sneezing, snoring, decreased/lost sense of smell), oropharyngeal diseases (jaw crunching, neck swelling and pain, anomalies of the oral cavity and tongue, hypersalivation, tonsillar problem, dry mouth, taste disorder, fetor ex ore), laryngeal diseases (hoarseness, swallowing problems, differential diagnosis of «pharyngeal globus»), oncology of ENT region, plastic reconstructive surgery of ENT region, disease of salivary glands, thyroid gland and parathyroid glands.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Wax MK. Primary Care Otolaryngology. AAO-HNS, 2nd Edition. 2004.					
	Skripta iz otorinolaringologije za studente stomatologije, tisak Znanje, 2001.					
	Ž. Bumber i sur. Otorinolaringologija, Medicinska biblioteka, Naklada Ljevak, 2004.					
Optional literature (at the time of submission of study programme proposal)	Johnson JT, Rosen CA et al. Bailey’s Head & Neck Surgery – Otolaryngology, 5th edition, Walters Kluwer/Lippincot Williams & Wilkins; 2013. Cummings CW, Haughey BH, Regan Thomas J, Harker LA, Flint PW. Otolaryngology: Head and Neck Surgery. Mosby, 4 edition. 2004.					

	Dječja otorinolaringologija, Z. Krajina i sur., Šk. knjiga, 1998. Temelji funkcijske endoskopske sinusne kirurgije, R. Mladina, Šk. knjiga, 1994.
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Ophthalmology					
Code		Year of study	3rd				
Course teacher	Prof. Milan Ivanišević, MD, PhD	Credits (ECTS)	1				
Associate teachers	Prof. Lovro Bojić, MD, PhD; Prof. Ksenija Karaman, MD, Ph.D; Assoc. Prof. Kajo Bućan, MD, PhD.; Assist. Prof. Veljko Rogošić, MD, PhD; Assist. Prof. Davor Galetović, MD, PhD; Assist. Prof. Dobrila Karlica Utrobičić, MD, PhD; Svjetlana Matijević, MD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			7	7	6	20	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to identify the normal visual organ functionto compare correlation between visual organ and the other organ systems of the bodyto describe the basic eye diseases sympmatology, diagnose and essential guidelines of therapeuticals proceduresto carry out an examination of an eye on patient						

	<ul style="list-style-type: none"> to explain the principle of setting up a diagnose and simple therapeutical procedures 					
Course content broken down in detail by weekly class schedule (syllabus)	Definition of ophthalmology, classification of ophthalmology into subspecialization areas, therapy and diagnostics procedures in ophthalmology (ophthalmic history, examination of the outer eye and adnexa in diffuse and focused light, administration of eyedrops and ointment), anatomy, embryology, general and special pathology, orbital diseases (orbital cellulitis), eyelids, lacrimal apparatus, conjunctiva (conjunctivitis), cornea and sclera, uvea (uveitis), retina (hypertensive and diabetic retinopathy), lens and vitreous (cataract), glaucoma, neuro-ophthalmology (optic neuritis), refraction (refractive anomalies, presbyopia), strabismus, ortho-pleoptics, ocular trauma (orbital trauma, subconjunctival hemorrhage, hyphema, corneal erosion, conjunctival and corneal foreign bodies, penetrating injury of the eye), eye pharmacology (atropine, timolol).					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Šikić J. i sur. Oftalmologija. Zagreb: Narodne novine, 2003.					
	Ivanišević M. Priručnik za vježbe iz oftalmologije. Split: Medicinski fakultet Sveučilišta u Splitu, 2001.					
Optional literature (at the time of submission of study programme proposal)	Bušić M, Kuzmanović Elabjer B, Bosnar D. Seminaria ophthalmologica. Osijek: Cerovski d.o.o., 2012.					
Quality assurance methods that ensure the	<ul style="list-style-type: none"> Teaching quality analysis by students and teachers Exam passing rate analysis Committee for control of teaching reports 					

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

NAME OF THE COURSE		Materials in dental medicine					
Code		Year of study	3rd				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Professor Dolores Biočina-Lukenda, DMD, PhD; Assistant professor Marina Ognjenović Mirošević, DMD, PhD; Jozo Badrov, DMD, MSc; Slavica Pejda, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			30	0	0	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to describe the basic mechanical, physical, chemical and biological properties of dental materialsto classify metal alloys used in dental medicineto describe polymeric materials in dental medicineto classify and describe the properties of dental ceramicsto describe the materials used in restorative dentistryto describe the correct handling of certain materials and technological procedures in the dental laboratory in which certain materials used						
Course content broken down in detail by weekly class schedule (syllabus)	<p>Course content refers to the theoretical knowledge about the application of dental materials in dental surgery and dental laboratory. Following the information on how to use technology and procedures related to a particular material.</p> <p>Thematic sections:</p> <ul style="list-style-type: none">Structure and properties of dental materialsAlloys in dental medicinePolymer materials in dental medicineCeramic MaterialsImpression materials						

	<ul style="list-style-type: none"> - Composite materials and amalgam - Dental wound covering materials and root canal filling materials - Enamel, dentin bonding systems - Cements - Materials in oral surgery - Materials in orthodontics - Auxiliary materials in the dental laboratory - Finishing works on dental materials - The impact of dental materials to the surrounding tissues 					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work <i>(name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Jerolimov V i sur. Stomatološki materijali. Zagreb: Stomatološki fakultet; 2005.					
	Živko-Babić J., Jerolimov V. Metali u stomatološkoj protetici. Zagreb: Školska knjiga; 2005.					
	Mehulić K. Keramički materijali u stomatološkoj protetici. Zagreb: Školska knjiga; 2010.					
	Šutalo J i sur. Patologija i terapija tvrdih zubnih tkiva. Zagreb: Naklada Zadro; 1994.					
Optional literature (at the time of submission of study programme proposal)	Mc Cabe JF. Applied Dental Materials. 71th Ed. Oxford: Blackwell Scientific Publications, 1990.					
Quality assurance methods that ensure the	<ul style="list-style-type: none"> ▪ Teaching quality analysis by students and teachers ▪ Exam passing rate analysis 					

acquisition of exit competences	<ul style="list-style-type: none"> Committee for control of teaching reports External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE		Propedeutics of dental medicine					
Code		Year of study	3rd				
Course teacher	prof. Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Assist. prof. Ivan Kovačić, DMD, PhD; Assist. prof. Marina Ognjenović Mirošević, DMD, PhD; Jozo Badrov, DMD, MSc; Katica Parat, DMD, MSc; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD; Slavica Pejda, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Marija Nosić, DMD, MSc; Lidija Gavić, DMD, MSc; Darko Kero, DMD, PhD; Tea Galić, DMD;	Type of instruction (number of hours)	L	S	E	T	
			10	10	10	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to list and to describe the dental office and dental lab equipmentto list and to describe instruments used in dental medicineto describe procedures of total and partial disinfection (dental office, equipment, instruments)to describe the cleaning of instruments and sterilization proceduresto list and to describe means of dental office safety protocolsto list and describe the most common diagnostic tools and methods used in dental medicineto discuss the importance of interdisciplinary approach in clinical problem solving						
Course content broken down in	Working place; Dental office equipment; Instruments used in the dental office; Examination of the patient; Patients records; Clinical trials, Basics of radiogram						

detail by weekly class schedule (syllabus)	analysis; Reception and treatment of patients suffering from infectious diseases; Infection control; Clinical procedures; Sterilization; Disinfection; Propedeutics in certain areas of dentistry;					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Pezelj-Ribarić S: Stomatološka propedeutika i dijagnostika. Rijeka: Medicinski fakultet Sveučilišta u Rijeci; 2009.					
Optional literature (at the time of submission of study programme proposal)	1. Besner E, Michanowicz AE, Michanowicz JP. A Clinical Atlas of Practical Endodontics (odabrana poglavlja), Mosby 2. Šutalo J i sur. Patologija i terapija tvrdih zubnih tkiva (odabrana poglavlja), Naklada Zadro 3. Wilkins EM. Clinical practice of the dental hygienist. Baltimore: Williams and Wilkins					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Cariology					
Code		Year of study	3rd				
Course teacher	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	10	5	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to specify and to describe the stages of growth and development of teeth and supporting structures as well as the chemical composition and histological structure of hard dental tissuesto identify and to describe developmental anomalies of hard dental tissuesto identify, describe and classify physical and chemical impairments of hard dental tissuesto describe the principles of dental caries developmentto specify and to describe risk factors for development of dental caries and classification of caries lesionsto specify and to describe caries lesions on clinical and histopathological levelsto describe the influence of saliva and dental plaque on development of dental cariesto specify and to describe the diagnostic methods used to confirm caries lesionsto list and to describe tests used for assessment of risk of developing tooth decay						
Course content broken down in detail by weekly class schedule (syllabus)	<p>Course "Cariesology" refers to theoretical knowledge related to the recognition, diagnosis and prevention of caries and non-caries damage of hard tooth tissue. All lectures are accompanied by seminars.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- The growth and development of teeth and supporting structures- Histological and chemical composition of dental hard tissues- Developmental anomalies of dental hard tissues- Etiology of dental hard tissues diseases- Classification, Epidemiology and Diagnosis of carious and non-carious damage of dental hard tissue- Histopathological and clinical view of damage to the hard dental tissues- Prevention of damage to the hard dental tissues.						

Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Šutalo J i sur. Patologija i terapija tvrdih zubnih tkiva. Naklada Zadro 1994. Zagreb					
	Fejerskov O, Kidd E. Zubni karijes. Bolest i klinički postupci. Prijevod 2. izdanja. Naklada Slap, Jastrebarsko, 2011.					
	Fejerskov O & Kidd E. Dental Caries. The Disease and its Clinical Management. I ed. Blackwell Munsgaard, Copenhagen, 2003.					
Optional literature (at the time of submission of study programme proposal)	1. Nikiforuk G. Understanding Dental Caries, Ethiology and Mechanisms, Basical Clinical Aspects. S Krager 1985. 2. Znanstvena periodika: Journal of Dental Research, Caries Research					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Preventive Dental Medicine	
Code		Year of study	3rd
Course teacher	Prof. Dolores Biočina-	Credits (ECTS)	2

	Lukenda, DMD, PhD					
Associate teachers	Lidia Gavić, DMD; Tea Galić, DMD;	Type of instruction (number of hours)	L	S	E	T
			10	10	10	30
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and indicate the importance of preventive dentistry in the modern society• to describe the formation of plaque and its role in development of dental caries• to explain the development of caries lesion• to describe the mechanisms of action of fluoride, name the modalities and types of fluorides used in preventive dentistry• to demonstrate the use of topical fluorides• to explain the nutrition and diet in dental caries control• to describe and perform a clinical examination of the patient in order to detect caries• to evaluate the oral hygiene and calculate the plaque index in patients• to describe and demonstrate preventive fissure sealing procedure					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course contents refer to the theoretical and practical knowledge and skills related to preventive dental medicine i.e. familiarizing with the possibilities of preventing the development of dental caries using preventive methods.</p> <p>Thematic sections:</p> <ul style="list-style-type: none">- The importance of preventive dental medicine- Plaque formation and development of carious lesions- The role of plaque in the development of periodontal disease- Defensive possibilities and systems of the body- Personal oral hygiene: toothbrushes and brushing techniques, tooth pastes, auxiliary means- The effect and application of fluoride- Methods of systemic and topical fluoride applications- Fissures sealing and sealants- Tests of caries activity and caries risk assessment- The influence of diet in dental caries control and dietary counseling- Clinical examination to assess caries activity- Epidemiology of periodontal and tooth disease- Health education, individual and group prevention programs					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			

Student responsibilities	According to Study Regulations					
Screening student work <i>(name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Koch G., Poulsen S.: Pedodonticija-klinički pristup. Naklada Slap, Zagreb, 2005.					
	Šutalo J. Patologija i terapija tvrdih zubnih tkiva. Zadro, Zagreb, 1994.					
Optional literature (at the time of submission of study programme proposal)	1. R. Welbury and MS Duggal. Paediatric Dentistry, 2012., Oxford University Press. 2. D. Bakarčić i sur. Preventivna dentalna medicina, Redak, 2013.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Restorative Dental Medicine 1					
Code		Year of study	3rd				
Course teacher	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD	Credits (ECTS)	8				
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			25	25	75	125	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							

Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and specify the methods of sterilization and disinfection in dentistry• to describe classical and modern principles of cavity preparation• to specify and describe methods of achieving a dry working field• to specify, describe and use (on phantom models) the materials used in restorative dentistry• to specify and describe therapeutic procedures in restorative dentistry• to describe and distinguish caries and non-carious teeth damage• to choose and apply (in the theory) treatment to patient depending on the diagnosis• to carry out the rehabilitation of function and aesthetics on the phantom models					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course "Restorative Dental Medicine 1" is a basic branch of dental medicine which provides students with theoretical and practical knowledge and skills related to the diagnosis and treatment of dental hard tissue damage.</p> <p>All lectures are accompanied by seminars and clinical exercises in order to train students for independent work.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- Working place, instruments and ergonomics in restorative dentistry- Sterilization and disinfection in dental medicine- History, dental exam and nomenclature- Diagnosis of diseases of dental hard tissues- Treatment of diseases of dental hard tissues (tooth fillings) and rehabilitation of functions					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature	Title			Number of	Availability via	

(available in the library and via other media)		copies in the library	other media
	Šutalo J i sur. Patologija i terapija tvrdih zubnih tkiva. Naklada Zadro 1994., Zagreb		
Optional literature (at the time of submission of study programme proposal)	1. Albers HF. Tooth Colored restoratives. BC Decker Inc, Hamilton, London, 2002. 2. Andreasen JO, Andreasen FM. Essential of traumatic Injuries to the Teeth. Munksgaard Copenhagen, 1990. 3. Fejerskov O& Kidd E. Dental Caries. The Disease and its Clinical Management, 1 ed. Blackwell Munksgaard, Copenhagen, 003. 4. MountGJ.Hume WR . Preservation and Restoration of Tooth Structure. Mosby Int. Ltd., 1998. 5. Nakabayashi N. Pashley DH. Hybridization of Dental Hard Tissues. Quintessence Publishing Co.Ltd., 1998. Znanstvena periodika Operative Dentistry, Esthetic Dentistry, Dental Materials		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Restorative Dental Medicine 2					
Code		Year of study	4th				
Course teacher	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD	Credits (ECTS)	6				
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	90	120	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to specify and describe procedures for diagnosis of dental diseasesto describe the instruments and working placeto describe and specify the methods of sterilization and disinfection in dentistryto describe classical and modern principles of cavity preparation and						

	<div>show them in practice</div> <ul style="list-style-type: none">• to specify and describe methods of achieving a dry working field and show them in practice• to specify, describe and use materials that are used in restorative dentistry• to specify and describe therapeutic procedures in restorative dentistry and show them in practice• to select, describe, and use of oral tests for determination of caries risk• to identify, describe and distinguish caries and non-carious teeth damage• to choose and apply the therapy to the patient depending on the diagnosis and patient’s functional and aesthetic needs					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course "Restorative Dental Medicine 1" is a basic branch of dental medicine which provides students with theoretical and practical knowledge and skills related to the diagnosis and treatment of dental hard tissue damage.</p> <p>All lectures are accompanied by seminars and clinical exercises in order to train students for independent work.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- Working place, instruments and ergonomics in restorative dentistry- Sterilization and disinfection in dental medicine- History, dental exam and nomenclature- Diagnosis of diseases of dental hard tissues- Treatment of diseases of dental hard tissues (tooth fillings) and rehabilitation of functions- Basic and modern principles of cavity preparation- Dry working field- Materials in restorative dentistry- Polymerization methods- Indirect fillings- Tooth whitening techniques- Dentinal hypersensitivity and postoperative sensitivity- Dental trauma and reconstruction of trauma-damaged teeth					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and	Written exam, oral exam					

evaluating student work in class and at the final exam			
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	Šutalo J i sur. Patologija i terapija tvrdih zubnih tkiva. Naklada Zadro 1994., Zagreb		
Optional literature (at the time of submission of study programme proposal)	<ol style="list-style-type: none"> 1. Albers HF. Tooth Colored restoratives. BC Decker Inc, Hamilton, London, 2002. 2. Andreasen JO, Andreasen FM. Essential of traumatic Injuries to the Teeth. Munksgaard Copenhagen, 1990. 3. Fejerskov O& Kidd E. Dental Caries. The Disease and its Clinical Management, 1 ed. Blackwell Munksgaard, Copenhagen, 2003. 4. MountGJ.Hume WR . Preservation and Restoration of Tooth Structure. Mosby Int. Ltd., 1998. 5. Nakabayashi N. Pashley DH. Hybridization of Dental Hard Tissues. Quintessence Publishing Co.Ltd., 1998. 6. Znanstvena periodika Operative Dentistry, Esthetic Dentistry, Dental Materials 		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Removable prosthodontics 1					
Code		Year of study	3rd				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	8				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;	Type of instruction (number of hours)	L	S	E	T	
			35	35	55	125	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						

Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe the anatomy and physiology stomatognathic system• to describe the morphological changes of the stomatognathic system after teeth loss• to describe and list fundamental principles of mobile prostodontics therapy• to describe the removable dentures' manufacturing process (dental laboratory)• to execute all phases of partial and complete dentures' manufacturing process (acrylic and metal)					
Course content broken down in detail by weekly class schedule (syllabus)	<p>All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.</p> <p>Thematic sections:</p> <ol style="list-style-type: none">1. Morphological and functional changes of the stomatognathic system after the teeth loss2. Primary and secondary impressions procedures for complete and partial dentures3. Retention and stabilization of complete and partial dentures4. Determination of the intermaxillary relations and transfer to the articulator5. Selection and positioning of artificial teeth6. Delivery of denture to the patient and instructions7. Relining and repairing of complete and partial dentures8. Immediate denture and overdenture9. Removable prosthetics on implants					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for starting preclinical and clinical practical work), written preliminary exam after preclinical practice (prerequisite for starting clinical practice), grading of practical work, final exam (written and oral exam)					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Kraljević K. Potpune proteze, Areagrafika,					

	Zagreb, 2001.		
	Kraljević K. Anatomija i fiziologija okluzije, Globus, Zagreb, 1991.		
	Suvin M. Djelomične proteze, Školska knjiga, Zagreb		
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.		
	Carr AB, McGivney GP, Brown DT. McCrackens Partial Prosthodontics, Eleventh Edition, Elsevier Mosby St. Louis 2005.		
Optional literature (at the time of submission of study programme proposal)	1. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Complete Dentures, Mosby Co. 1976. 2. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Partial Dentures, Mosby Co. 1986. 3. Boucher JL, Renne PR. Treatment of partialy edentulous patients, Mosby Co. 1982. 4. Rahn AO, Heartwell CHM Jr. Textbook of Complete Dentures, Fifth Edition, Lea & Febiger, Phildelphia, London 1993.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Removable prosthodontics 2					
Code		Year of study	4th				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	4				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	45	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the	Not applicable.						

course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to assess the patient and plan complete removable prosthesis therapy under teacher's supervision (acrylic and metal)to assess the patient's clinical features and plan partial removable prosthesis therapy under teacher's supervision (acrylic and metal)to list indications for immediate dentureto execute all clinical phases of partial and complete dentures' manufacturing process under teacher's supervision (acrylic and metal)to execute Relining of complete and partial dentures under teacher's supervisionto execute rapairing of complete and partial dentures under teacher's supervision					
Course content broken down in detail by weekly class schedule (syllabus)	<p>All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.</p> <p>Thematic sections:</p> <ol style="list-style-type: none">Morphological and functional changes of the stomatognathic system after the teeth lossPrimary and secondary impressions procedures for complete and partial denturesRetention and stabilization of complete and partial denturesDetermination of the intermaxillary relations and transfer to the articulatorSelection and positioning of artificial teethDelivery of denture to the patient and instructionsRelining and repairing of complete and partial denturesImmediate denture and overdenture					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for starting preclinical and clinical practical work), written preliminary exam after preclinical practice (prerequisite for starting clinical practice), grading of practical work, final exam (written and oral exam)					
Required literature (available in the	Title				Number of copies in	Availability via other media

library and via other media)		the library	
	Kraljević K. Potpune proteze, Areagrafika, Zagreb, 2001.		
	Kraljević K. Anatomija i fiziologija okluzije, Globus, Zagreb, 1991.		
	Suvin M. Djelomične proteze, Školska knjiga, Zagreb		
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.		
	Carr AB, McGivney GP, Brown DT. McCrackens Partial Prosthodontics, Eleventh Edition, Elsevier Mosby St. Louis 2005.		
Optional literature (at the time of submission of study programme proposal)	1. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Complete Dentures, Mosby Co. 1976. 2. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Partial Dentures, Mosby Co. 1986. 3. Boucher JL, Renne PR. Treatment of partialy edentulous patients, Mosby Co. 1982. 4. Rahn AO, Heartwell CHM Jr. Textbook of Complete Dentures, Fifth Edition, Lea & Febiger, Philadelphia, London 1993.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Removable prosthodontics 3					
Code		Year of study	5th				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	5				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;	Type of instruction (number of hours)	L	S	E	T	
			0	25	50	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment	Not applicable.						

requirements and entry competences required for the course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to assess the patient and plan complete removable prosthesis therapy under teacher's supervision (acrylic and metal)to assess the patient's clinical features and plan partial removable prosthesis therapy under teacher's supervision (acrylic and metal)to execute all clinical phases of partial and complete dentures' manufacturing process under teacher's supervision (acrylic and metal)to execute Relining of complete and partial dentures under teacher's supervisionto execute rapairing of complete and partial dentures under teacher's supervisionto list indications for immediate dentureto list indications for overdenturesto describe the removable dentures' on implants manufacturing process					
Course content broken down in detail by weekly class schedule (syllabus)	<p>All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.</p> <p>Thematic sections:</p> <ol style="list-style-type: none">Morphological and functional changes of the stomatognathic system after the teeth lossPrimary and secondary impressions procedures for complete and partial denturesRetention and stabilization of complete and partial denturesDetermination of the intermaxillary relations and transfer to the articulatorSelection and positioning of artificial teethDelivery of denture to the patient and instructionsRelining and repairing of complete and partial denturesImmediate denture and overdentureRemovable prosthetics on implants					
Format of instruction	<input type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student	Continuous testing of knowledge during each teaching unit (prerequisite for					

work in class and at the final exam	starting preclinical and clinical practical work), written preliminary exam after preclinical practice (prerequisite for starting clinical practice), grading of practical work, final exam (written and oral exam)		
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	Kraljević K. Potpune proteze, Areagrafika, Zagreb, 2001.		
	Kraljević K. Anatomija i fiziologija okluzije, Globus, Zagreb, 1991.		
	Suvin M. Djelomične proteze, Školska knjiga, Zagreb		
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.		
	Carr AB, McGivney GP, Brown DT. McCrackens Partial Prosthodontics, Eleventh Edition, Elsevier Mosby St. Louis 2005.		
Optional literature (at the time of submission of study programme proposal)	1. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Complete Dentures, Mosby Co. 1976. 2. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Partial Dentures, Mosby Co. 1986. 3. Boucher JL, Renne PR. Treatment of partialy edentulous patients, Mosby Co. 1982. 4. Rahn AO, Heartwell CHM Jr. Textbook of Complete Dentures, Fifth Edition, Lea & Febiger, Phildelphia, London 1993.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Removable prosthodontics 4	
Code		Year of study	6th
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	2

Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;	Type of instruction (number of hours)	L	S	E	T
			0	0	50	50
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to assess the patient and plan complete removable prosthesis therapy under teacher's supervision (acrylic and metal)to assess the patient's clinical features and plan partial removable prosthesis therapy under teacher's supervision (acrylic and metal)to execute all clinical phases of partial and complete dentures' manufacturing process under teacher's supervision (acrylic and metal)to execute Relining of complete and partial dentures under teacher's supervisionto execute rapairing of complete and partial dentures under teacher's supervision					
Course content broken down in detail by weekly class schedule (syllabus)	<p>All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.</p> <p>Thematic sections:</p> <ol style="list-style-type: none">Morphological and functional changes of the stomatognathic system after the teeth lossPrimary and secondary impressions procedures for complete and partial denturesRetention and stabilization of complete and partial denturesDetermination of the intermaxillary relations and transfer to the articulatorSelection and positioning of artificial teethDelivery of denture to the patient and instructionsRelining and repairing of complete and partial denturesImmediate denture and overdentureRemovable prosthetics on implants					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (name the proportion of ECTS credits for each	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	

activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for starting preclinical and clinical practical work), written preliminary exam after preclinical practice (prerequisite for starting clinical practice), grading of practical work, final exam (written and oral exam)					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Kraljević K. Potpune proteze, Areagrafika, Zagreb, 2001.					
	Kraljević K. Anatomija i fiziologija okluzije, Globus, Zagreb, 1991.					
	Suvin M. Djelomične proteze, Školska knjiga, Zagreb					
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.					
	Carr AB, McGivney GP, Brown DT. McCrackens Partial Prosthodontics, Eleventh Edition, Elsevier Mosby St. Louis 2005.					
Optional literature (at the time of submission of study programme proposal)	1. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Complete Dentures, Mosby Co. 1976. 2. Morow MR, Rudd DK, Rhoads EJ. Dental Laboratory Procedures. Partial Dentures, Mosby Co. 1986. 3. Boucher JL, Renne PR. Treatment of partialy edentulous patients, Mosby Co. 1982. 4. Rahn AO, Heartwell CHM Jr. Textbook of Complete Dentures, Fifth Edition, Lea & Febiger, Phildelphia, London 1993.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Fixed prosthodontics I			
Code		Year of study	3rd		
Course teacher	Assistant professor Ivan	Credits (ECTS)	20		

	Kovačić, DMD, PhD					
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T
			15	15	45	125
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and list fundamental principles of fixed prostodontics therapy• to describe and list indications for fixed prostodontics therapy• to describe and explain the biomechanics of fixed- prostodontics' restauarations (bridges, crowns, free-end bridges, posts)• to describe the fixed prosthodontic reastaurations manufacturing process (dental laboratory)• to execute feather-edge and shoulder margin tooth preparation on acrylic teeth models• to make impressions of prepared acrylic teeth• to wax up teeth on plaster casts• to manufacture a direct custom-made post with resin pattern on a plaster casts and extracted endodontically treated teeth					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Course gives theoretical and practical knowledge and skills in fixed prosthodontic restauarations manufacturing process. Describes and demonstrates fundamental theoretical and practical principles in fixed prosthodontic restauarations manufacturing process in dental laboratory. Acquire articulator and face bow working skills, splint manufacturing procedures, aiming to train students to work independently.</p> <p>All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.</p> <p>Thematic sections:</p> <ol style="list-style-type: none">1. Fixed prosthodontic restauarations planning2. Fixed prosthodontic restauarations types3. Principles of tooth praparation4. Impression types in fixed prosthodontics					

	5. Try-in, finishing and luting of fixed prosthodontic restorations 6. Ceramic-fused to metal restorations 7. All ceramic restorations 8. <i>Implant-supported fixed prosthesis restorations</i> 9. Survival and complication rates of fixed restorations					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for working on preclinical and clinical practice), written preliminary exam after preclinical practice (prerequisite for taking clinical practice), grading of practical work, final exam (written and oral exam)					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Schillingburg TH., Hobo S., Whitsett LD., Jacobi R., Brackett SE. Osnove fiksne protetike. Zagreb: Media ogled; 2008					
	Čatović A. i sur. Klinička fiksna protetika, Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 1999.					
	Živko-Babić J., Jerolimov V. Metali u stomatološkoj protetici. Zagreb: Školska knjiga; 2005.					
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.					
	Mehulić K. Keramički materijali u stomatološkoj protetici. Zagreb: Školska knjiga; 2010.					
	Kraljević K. Anatomija i fiziologija okluzije, Zagreb, Globus, 1991.					
	Knežević G. i sur. Osnove dentalne implantologije. Zagreb: Školska knjiga; 2002.					
Optional literature (at the time of submission of study programme proposal)	1. Rosentiel S., Land F., Fujimoto J. Contemporary fixed prosthodontics, 3 rd edition. Mosby inc. Publishing 2001. 2. Mithridade D., Martinez H., Kebir M., Tecucianu JF. Priručnik dentalne implantologije. Zagreb: In.Tri; 2006.					
Quality assurance methods that	<ul style="list-style-type: none">Teaching quality analysis by students and teachersExam passing rate analysis					

ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ Committee for control of teaching reports ▪ External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE		Fixed prosthodontics 2					
Code		Year of study	4th				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	5				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	45	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and list fundamental principles of fixed prostodontics therapy• to describe and list indications for fixed prostodontics therapy• to describe and explain the biomechanics of fixed- prostodontics' restaurations (bridges, crowns, free-end bridges, posts)• to describe the fixed prosthodontic reastorations manufacturing process (dental laboratory)• to execute feather-edge and shoulder margin tooth preparation on a patient• to make impressions of prepared teeth• to asses fitting and adapt fixed restorations on a patient• to manufacture a direct custom-made post with resin pattern on a patient and luting of metal cast						
Course content broken down in detail by weekly class schedule	Course gives theoretical and practical knowledge and skills in fixed prosthodontic restaurations manufacturing process. Describes and demonstrates fundamental						

(syllabus)	theoretical and practical principles in fixed prosthodontic restorations manufacturing process in dental laboratory. Acquire articulator and face bow working skills, splint manufacturing procedures, aiming to train students to work independently.					
	All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.					
	Thematic sections:					
	<div><div>1. Fixed prosthodontic restorations planning</div><div>2. Fixed prosthodontic restorations types</div><div>3. Principles of tooth preparation</div><div>4. Impression types in fixed prosthodontics</div><div>5. Try-in, finishing and luting of fixed prosthodontic restorations</div><div>6. Ceramic-fused to metal restorations</div><div>7. All ceramic restorations</div><div>8. <i>Implant-supported fixed prosthesis restorations</i></div></div>					
	Survival and complication rates of fixed restorations					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for working on preclinical and clinical practice), written preliminary exam after preclinical practice (prerequisite for taking clinical practice), grading of practical work, final exam (written and oral exam)					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Schillingburg TH., Hobo S., Whitsett LD., Jacobi R. ,Brackett SE.Osnove fiksne protetike. Zagreb: Media ogled; 2008					
	Čatović A. i sur. Klinička fiksna protetika, Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 1999.					
	Živko-Babić J., Jerolimov V. Metali u stomatološkoj protetici. Zagreb: Školska knjiga; 2005.					
	Jerolimov V. I sur. Stomatološki materijali. Zagreb:					

	Stomatološki fakultet Sveučilišta u Zagrebu, 2003. Mehulić K. Keramički materijali u stomatološkoj protetici. Zagreb: Školska knjiga; 2010. Kraljević K. Anatomija i fiziologija okluzije, Zagreb, Globus, 1991. Knežević G. i sur. Osnove dentalne implantologije. Zagreb: Školska knjiga; 2002.		
Optional literature (at the time of submission of study programme proposal)	1. Rosentiel S., Land F., Fujimoto J. Contemporary fixed prosthodontics, 3 rd edition. Mosby inc. Publishing 2001. 2. Mithridade D., Martinez H., Kebir M., Tecucianu JF. Priručnik dentalne implantologije. Zagreb: In.Tri; 2006.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Fixed prosthodontics 3					
Code		Year of study	5th				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	5				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	25	50	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and list fundamental principles of fixed prostodontics therapy• to describe and list indications for fixed prostodontics therapy• to describe and explain the biomechanics of fixed- prostodontics' restorations (bridges, crowns, free-end bridges, posts)• to describe the fixed prosthodontic reastaurations manufacturing process (dental laboratory)• to execute feather-edge and shoulder margin tooth preparation on						

	<p>a patient</p> <ul style="list-style-type: none">• to make impressions of prepared teeth• to asses fitting and adapt fixed restorations on a patient• to manufacture a direct custom-made post with resin pattern on a patient and luting of metal cast					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Course gives theoretical and practical knowledge and skills in fixed prosthodontic restaurations manufacturing process. Describes and demonstrates fundamental theoretical and practical principles in fixed prosthodontic restaurations manufacturing process in dental laboratory. Acquire articulator and face bow working skills, splint manufacturing procedures, aiming to train students to work independently.</p> <p>All theoretical classes are accompanied by clinical practical work aiming to train students to work independently.</p> <p>Thematic sections:</p> <ol style="list-style-type: none">1. Fixed prosthodontic restaurations planning2. Fixed prosthodontic restaurations types3. Principles of tooth praparation4. Impression types in fixed prosthodontics5. Try-in, finishing and luting of fixed prosthodontic restaurations6. Ceramic-fused to metal restaurations7. All ceramic restaurations8. <i>Implant-supported fixed prosthesis restorations</i> <p>Survival and complication rates of fixed restaurations</p>					
Format of instruction	<input type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for working on preclinical and clinical practice), written preliminary exam after preclinical practice (prerequisite for taking clinical practice), grading of practical work, final					

	exam (written and oral exam)		
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	Schillingburg TH., Hobo S., Whitsett LD., Jacobi R. ,Brackett SE.Osnove fiksne protetike. Zagreb: Media ogled; 2008		
	Ćatović A. i sur. Klinička fiksna protetika, Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 1999.		
	Živko-Babić J., Jerolimov V. Metali u stomatološkoj protetici. Zagreb: Školska knjiga; 2005.		
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.		
	Mehulić K. Keramički materijali u stomatološkoj protetici. Zagreb: Školska knjiga; 2010.		
	Kraljević K. Anatomija i fiziologija okluzije, Zagreb, Globus, 1991.		
	Knežević G. i sur. Osnove dentalne implantologije. Zagreb: Školska knjiga; 2002.		
Optional literature (at the time of submission of study programme proposal)	1. Rosentiel S., Land F., Fujimoto J. Contemporary fixed prosthodontics, 3 rd edition. Mosby inc. Publishing 2001. 2. Mithridade D., Martinez H., Kebir M., Tecucianu JF. Priručnik dentalne implantologije. Zagreb: In.Tri; 2006.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Fixed prosthodontics 4					
Code		Year of study	6th				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	50	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						

Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to apply fundamental principles of fixed prostodontics therapy in clinical work• to describe and explain the biomechanics of fixed- prostodontics' restaurations (bridges, crowns, free-end bridges, posts)• to plan fixed- prostodontics' restaurations (bridges, crowns, free-end bridges, posts) according to biomechanical principles• to participate in a fixed prosthodontic reastaurations manufacturing process (dental laboratory)• to perform feather-edge and shoulder margin tooth preparation on a patient• to make impressions of prepared teeth on a patient• to asses fitting and adapt fixed restorations on a patient• to manufacture a direct custom-made post with resin pattern on a patient and luting of metal cast					
Course content broken down in detail by weekly class schedule (syllabus)	Continuous testing of knowledge during each teaching unit (prerequisite for working on preclinical and clinical practice), written preliminary exam after preclinical practice (prerequisite for taking clinical practice), grading of practical work, final exam (written and oral exam)					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> on line in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other	Title			Number of copies in the library	Availability via other media	

media)	Schillingburg TH., Hobo S., Whitsett LD., Jacobi R. ,Brackett SE.Osnove fiksne protetike. Zagreb: Media ogled; 2008		
	Ćatović A. i sur. Klinička fiksna protetika, Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 1999.		
	Živko-Babić J., Jerolimov V. Metali u stomatološkoj protetici. Zagreb: Školska knjiga; 2005.		
	Jerolimov V. I sur. Stomatološki materijali. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu, 2003.		
	Mehulić K. Keramički materijali u stomatološkoj protetici. Zagreb: Školska knjiga; 2010.		
	Kraljević K. Anatomija i fiziologija okluzije, Zagreb, Globus, 1991.		
	Knežević G. i sur. Osnove dentalne implantologije. Zagreb: Školska knjiga; 2002.		
Optional literature (at the time of submission of study programme proposal)	1. Rosentiel S., Land F., Fujimoto J. Contemporary fixed prosthodontics, 3 rd edition. Mosby inc. Publishing 2001. 2. Mithridade D., Martinez H., Kebir M., Tecucianu JF. Priručnik dentalne implantologije. Zagreb: In.Tri; 2006.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Scientific research 3					
Code		Year of study	3rd				
Course teacher	Prof. Ana Marušić, MD, PhD	Credits (ECTS)	1				
Associate teachers	Prof. Matko Marušić, MD, PhD; Prof. Zoran Đogaš, MD, PhD; Assist. Prof. Ana Jerončić, PhD; Assist. Prof. Ivana Kolčić; Irena Zakarija Grković, MD, PhD; Mario Malički, MD; Tina Poklepović Perićić, DMD; Lana Bošnjak, MS; Ana Utrobičić, BA; Frane Mihanović, MSc;	Type of instruction (number of hours)	L	S	E	T	
			0	10	10	20	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							

Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to formulate a relevant clinical questions about a patient in PICO format (patient, intervention, comparison, outcome)• to use defined key words from PICO in relation to MeSH search terminology to search literature• to design search strategy of bibliographic databases, with particular reference to Cochrane Library• to recognize, classification and assess systematic review and metaanalyses• to find and use medical information specific for a patient• to critically assess evidence• to define basic concepts in quality assessment of health care including work in multidisciplinary teams and patient-centered care• to apply principles of quality of health care in solving concrete problems in health care organization					
Course content broken down in detail by weekly class schedule (syllabus)	The course integrates topics from medical informatics, medical statistics, principles of research, principles of evidence based medicine, and principles of assessing quality of health care. The focus is on practical application of evidence-based medicine. The teaching is organized according to the principles of team learning and practical problem based learning (total of 5 h lectures, 5 h seminars and 10 h practicals)					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	The course exam has three components: continual formal written evaluation of 1) knowledge and 2) skills and 3) an integrated written test at the end of the course. All course assignments are graded, and the final score ranges from 0 to 100% so that 60% of the score comes from the evaluations during the course and 40% from the final written test. Grades are awarded according to the following criteria: 0-55 - fail, 56-65 - satisfactory, 66-75 - good, 76-85 - very good, ≥86 - outstanding.					
Required literature (available in the	Title			Number of copies in	Availability via other media	

library and via other media)		the library	
	Marušić M, ur. Uvod u znanstveni rad u medicini. 4. izdanje. Zagreb: Medicinska naklada; 2013.		
	Kern J, Petrovečki M, ur. Medicinska informatika. Zagreb: Medicinska naklada; 2009.		
	Ferenczi E, Muirhead N. Statistika i epidemiologija u jednom potezu. Zagreb: Medicinska naklada; 2011.		
	Nastavni materijali za pojedine nastavne jedinice		
Optional literature (at the time of submission of study programme proposal)	<p>1. Day RA, Gastel N. How to write and publish a scientific paper, 6th edition. Westport (CT): Greenwood Press; 2006.</p> <p>2. Lang T, Secic M. How To report statistics in medicine: annotated guidelines for authors, editors, and reviewers, 2nd edition. Philadelphia (PA): American College of Physicians; 2006.</p> <p>3. Hoyt RE, Yoshihashi A, Sutton M. Medical informatics: practical guide for the healthcare professional. Third edition e-book. Lulu.com, 2009.</p> <p>4. Ogrinc GS, Headrick LA. Fundamentals of health care improvement. Oakbrook Terrace (IL): USA Joint Commission Resources; 2008.</p> <p>5. Committee on Assessing Integrity in Research Environments. Integrity in scientific research. Washington, DC: Institute of Medicine and National Research Council; 2002.</p>		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Gnathology					
Code		Year of study	4th				
Course teacher	Assistant professor Ivan Kovačić, DMD, PhD	Credits (ECTS)	3				
Associate teachers	Assistant professor Davor Seifert, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	15	45	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences	Not applicable.						

required for the course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to list and describe TMJ disorders• to describe and compare stomatognathic system's components relationship during function and at rest• to describe and demonstrate primary impressions procedure• to list and describe types and usage of articulators and face bow• to describe and demonstrate determination of the intermaxillary relations• to describe TMJ disorders splint therapy					
Course content broken down in detail by weekly class schedule (syllabus)	Course gives theoretical knowledge of stomatognathic system and its impact on head and neck's structures, TMJ disorders and therapy. Acquire articulator and face bow working skills, splint manufacturing procedures, aiming to train students to work independently.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Continuous testing of knowledge during each teaching unit (prerequisite for starting preclinical and clinical practical work), written preliminary exam after preclinical practice (prerequisite for starting clinical practice), grading of practical work, final exam (written and oral exam)					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Okeson J.P. Temporomandibularni poremećaji i okluzija. Zagreb: Medicinska naklada; 2008.					
	Valentić-Peruzović M., Jerolimov V. i sur. Temporomandibularni poremećaji multidisciplinarni pristup. Zagreb: Stomatološki fakultet Sveučilišta u Zagrebu i Akademija medicinskih znanosti Hrvatske; 2007.					
Optional literature (at the time of submission of study programme)	1. Kraljević K. Anatomija i fiziologija okluzije. Globus, Zagreb, 1991. 2. Badel T. Temporomandibularni poremećaji i stomatološka protetika. Zagreb: Medicinska naklada; 2007.					

proposal)	
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Endodontics 1					
Code		Year of study	4th				
Course teacher	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD	Credits (ECTS)	4				
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	45	75	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe the anatomical and histological characteristics of endodontic (dental pulp) space, periradicular and periapical tissues• to describe and to classify diseases of the pulp and periapical tissues• to specify and to describe the microbial flora in endodontics• to specify and to describe the indications and contraindications, and diagnostic procedures in endodontics• to describe the use of local anesthetics in endodontics• to describe, select and apply the tools and methods for establishing dry working field in endodontics on mannequins• to describe and to perform the trepanning of teeth in order to localize the orifices of root canals on extracted teeth• to describe working principle of instruments for determination of root canal length• to describe, select and apply techniques of root canal instrumentation on extracted teeth• to describe and apply root canal filling materials and techniques most commonly used in endodontics on extracted teeth						
Course content broken down in detail by weekly	The course "Endodontics" is basic and specialist field within dental medicine, which provides students with theoretical and practical						

class schedule (syllabus)	knowledge, and deals with the dental pulp, periradicular and periapical area. Studying anatomy and physiology of the pulp, mechanisms of formation and perception of pain and response of the pulp on acute and chronic stimuli, its pathology (symptoms of pulpal and pulpoperiodontal complex) and treatment. All lectures accompanied by seminars and preclinical exercises in order to train students for independent work. Thematic sections of the course are: - The biological basis of endodontics - Anatomy of teeth and endodontic space - Morphological, histological characteristics of pulp and periapical areas - Diseases of the pulp and periapical tissue - The protection and preservation of pulp vitality - Endodontic microbiology - Clinical diagnosis in endodontics - Indications and contraindications for endodontic surgery - Disinfection and sterilization - Instruments in endodontics and working place - Dry working field in endodontics - Review of therapy - Local anesthesia - Cavity preparation in endodontics and localization of the entrance to the root canals - Determination of working length - Instrumentation techniques, preparation and disinfection of the root canal - Techniques of root canal filling					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other	Title			Number of copies in the library	Availability via other media	

media)	Walton RE, Torabinejed M. Endodoncija; Naklada Slap, Zagreb, 2010.		
	Andreasen JO, Andreasen FM. traumatske ozljede zuba, Naklada Slap, Zagreb, 2008.		
Optional literature (at the time of submission of study programme proposal)	1. Johnson WT. Color Atlas of Endodontics. WB Saunders Co. 2002. 2. Beer R, Baumann MA, Kim S: Color Atlas of Dental Medicine; Endodontology , 3. Thieme, New York, 2000. 4. Cohen S, Burns RC. Pathways of the Pulp. VIII ed., Mosby Inc. St. Louis, 2002. Ingle JI, Bakland LK. Endodontics. BC Decker Inc, Hamilton, London, 2002.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Endodontics 2					
Code		Year of study	5th				
Course teacher	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD	Credits (ECTS)					
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			25	0	100	125	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to apply knowledge of indications and counter-indications, as well as of diagnostic procedures during clinical endodontic practiceto administer local anesthetic in root canals during clinical endodontic practiceto describe, select and apply the tools and methods for establishing dry working field during clinical endodontic practiceto perform the trepanning of teeth in order to localize the orifices of root						

	<div>canals on patients</div> <ul style="list-style-type: none">• to apply instruments for determination of root canal length during clinical endodontic practice• to apply selected technique for root canal instrumentation during clinical endodontic practice• to apply root canal filling technique of choice during clinical endodontic practice					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course "Endodontics" is basic and specialist field within dental medicine, which provides students with theoretical and practical knowledge, and deals with the dental pulp, periradicular and periapical area. Studying anatomy and physiology of the pulp, mechanisms of formation and perception of pain and response of the pulp on acute and chronic stimuli, its pathology (symptoms of pulpal and pulpoperiodontal complex) and treatment.</p> <p>All lectures accompanied by seminars and preclinical exercises in order to train students for independent work.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- Emergency in endodontics- Incidents and accidents during endodontic treatment- Endodontic surgery- Postendodontic restoration of teeth- High risk patient in dental clinics- Endodontic problem in clinical practice- Endodontics in primary dentition and in gerontological patients- Tooth whitening- Traumatic injuries of teeth and treatment of traumatic injuries to teeth					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam					
Required literature (available in the library and via other	Title			Number of copies in the library	Availability via other media	

media)	Walton RE, Torabinejed M. Endodoncija; Naklada Slap, Zagreb, 2010.		
	Andreasen JO, Andreasen FM. traumatske ozljede zuba, Naklada Slap, Zagreb, 2008.		
Optional literature (at the time of submission of study programme proposal)	1. Johnson WT. Color Atlas of Endodontics. WB Saunders Co. 2002. 2. Beer R, Baumann MA, Kim S: Color Atlas of Dental Medicine; Endodontology , 3. Thieme, New York, 2000. 4. Cohen S, Burns RC. Pathways of the Pulp. VIII ed., Mosby Inc. St. Louis, 2002. Ingle JI, Bakland LK. Endodontics. BC Decker Inc, Hamilton, London, 2002.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Endodontics 3					
Code		Year of study	6th				
Course teacher	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	50	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to describe and apply the acquired knowledge about therapeutic procedures in order to protect the pulp and preserve its vitalityto describe, identify and treat emergency endodontic casesto describe and apply methods of restoration for endodontically treated teethto describe and apply the principles of endodontic care for high-risk patientsto describe endodontic surgical proceduresto describe and to apply the techniques of teeth whitening						

	<ul style="list-style-type: none">• to successfully treat endodontic problems encountered in clinical practice• to describe and to specify traumatic injuries of tooth and therapeutic options and the same applied to the patient					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course "Endodontics" is basic and specialist field within dental medicine, which provides students with theoretical and practical knowledge, and deals with the dental pulp, periradicular and periapical area. Studying anatomy and physiology of the pulp, mechanisms of formation and perception of pain and response of the pulp on acute and chronic stimuli, its pathology (symptoms of pulpal and pulpoperiodontal complex) and treatment.</p> <p>On clinical courses students are applying theoretical and practical knowledge they recieved on previous clases.</p>					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Oral exam, practical exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Walton RE, Torabinejed M. Endodonticija; Naklada Slap, Zagreb, 2010.					
	Andreasen JO, Andreasen FM.traumatske ozljede zuba, Naklada Slap, Zagreb, 2008.					
Optional literature (at the time of submission of study programme proposal)	1. Johnson WT. Color Atlas of Endodontics. WB Saunders Co. 2002. 2. Beer R, Baumann MA, Kim S: Color Atlas of Dental Medicine; Endodontology , 3. Thieme, New York, 2000. 4. Cohen S, Burns RC. Pathways of the Pulp. VIII ed., Mosby Inc. St. Louis, 2002. Ingle JI, Bakland LK. Endodontics. BC Decker Inc, Hamilton, London, 2002.					
Quality assurance	▪ Teaching quality analysis by students and teachers					

methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ Exam passing rate analysis ▪ Committee for control of teaching reports ▪ External evaluation
Other (as the proposer wishes to add)	

NAME OF THE COURSE		Pediatric dentistry I					
Code		Year of study	4th				
Course teacher	Prof. Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	5				
Associate teachers	Lidia Gavić, DMD; Tea Galić, DMD; Marica Anđić, DMD; Marijo Budimir, DMD;	Type of instruction (number of hours)	L	S	E	T	
			15	15	60	90	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and explain the practical importance of pediatric dentistry• to understand and explain the specificity of a child patient• to describe the growth and the development in early childhood• to introduce and prepare a child for a dental treatment• to describe and apply behaviour management techniques• to describe the prevention of dental caries techniques in primary and permanent dentition• to diagnose dental caries in primary and permanent dentition• to apply specific operative treatment of dental caries• to describe and demonstrate the etiology and treatment methods for pediatric oral pathology• to identify the orthodontic anomalies						
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge and skills related to Pediatric dentistry. Dental medicine in childhood is a clinical discipline concerned with the prevention and therapeutic procedures in order to maintain the oral health in children from birth until the end of adolescence. In addition, it covers dental care for the disabled patients and children with special needs regardless of age.</p> <p>The basis of teaching in Pediatric dentistry is mastering the skills necessary to</p>						

	achieve optimal oral health of children through the use of different preventive, health-educational and therapeutic procedures.					
	All theoretical classes are accompanied by clinical practice aimed at training students to work independently.					
	Thematic sections: <ul style="list-style-type: none">- Introduction to pediatric dentistry, history, examination and treatment planning- Craniofacial growth and development- Tooth growth and development (tooth mineralization, tooth eruption, anomalies of tooth formation and eruption, development of occlusion)- Different types of child behaviour and behaviour management techniques- Prevention of dental caries and other oral diseases in pediatric dentistry- Clinical diagnosis of dental caries- Restorative materials in pediatric dentistry- Anomalies of number and shape of the tooth- Anomalies of the tooth structure- Prevention of orthodontic anomalies					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Koch G., Poulsen S.: Pedodoncija-klinički pristup. Naklada Slap, Zagreb, 2005.					
	Andreasen F.M., Andreasen J.O., Bakland L.K., Flores M.T. : Traumatske ozljede zubi. Naklada Slap, Zagreb, 2008.					
	Škrinjarić I.: Trauma zuba u djece. Globus, Zagreb,					

	1988.		
Optional literature (at the time of submission of study programme proposal)	R. Welbury and MS Duggal. Paediatric Dentistry, 2012., Oxford University Press.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Pediatric dentistry 2					
Code		Year of study	5th				
Course teacher	Prof. Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	6				
Associate teachers	Lidia Gavić, DMD; Tea Galić, DMD; Marica Anđić, DMD; Marijo Budimir, DMD;	Type of instruction (number of hours)	L	S	E	T	
			10	5	95	110	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to list, describe and apply appropriate techniques of local anesthesiato explain the possibilities of performing dental treatment under general anesthesia, methods of general anesthesia in dental medicine, indications and contraindications for dental treatment under general anesthesiato describe the peculiarity of working with special needs childrento implement under the supervision the treatment of the disabled patients and children with special needs regardless of ageto identify and classify diseases of the pulp of primary teethto implement the treatment of primary teeth						

	<ul style="list-style-type: none">• to implement the treatment of young permanent teeth• to recognize and classify the orofacial injury• to list and describe the most common methods of taking care of dentofacial injuries in children and young people and perform them• to list and describe the most common methods of disposal dentofacial injuries in children and adolescents and perform the same					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge and skills related to Pediatric Dentistry. Pediatric Dentistry is a clinical discipline concerned with the prevention and therapeutic procedures in order to maintain oral health in children from birth until the end of adolescence. In addition it includes the care of persons with disabilities regardless of age.</p> <p>The basis of teaching in Pediatric dentistry is mastering the skills necessary to achieve optimal oral health of children through the use of different preventive, health-educational and therapeutic procedures.</p> <p>All theoretical classes are accompanied by clinical practice aimed at training students to work independently.</p> <p>Thematic sections:</p> <ul style="list-style-type: none">- Local anesthesia and sedation in pediatric dental medicine- Dental treatment of the disabled patients and children with special needs regardless of age.- Diagnosis and treatment of pulp in primary and immature permanent teeth- Diagnosis, treatment and prognosis of dental trauma in primary teeth- Diagnosis, treatment and prognosis of dental trauma in permanent teeth- Prevention of dental trauma					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	

Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam		
Required literature (available in the library and via other media)	Title	Number of copies in the library	Availability via other media
	Koch G., Poulsen S.: Pedodoncija-klinički pristup. Naklada Slap, Zagreb, 2005.		
	Andreasen F.M., Andreasen J.O., Bakland L.K., Flores M.T. : Traumatske ozljede zubi. Naklada Slap, Zagreb, 2008.		
	Škrinjarić I.: Trauma zuba u djece. Globus, Zagreb, 1988.		
Optional literature (at the time of submission of study programme proposal)	R. Welbury and MS Duggal. Paediatric Dentistry, 2012., Oxford University Press.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Pediatric dentistry 3					
Code		Year of study	6th				
Course teacher	Prof. Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Lidia Gavić, DMD; Tea Galić, DMD; Marica Anđić, DMD; Marijo Budimir, DMD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	50	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course	<ul style="list-style-type: none">to implement the examination of the patientto plan pediatric dental therapy						

(4 to 10 learning outcomes)	<ul style="list-style-type: none">• to prepare a child for dental treatment• to implement the treatment of dental pulp of primary and young permanent teeth• to implement the treatment of dental injury• to implement under the supervision the dental treatment in general anesthesia• to implement under the supervision the dental treatment of the disabled patients and children with special needs					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge and skills related to Pediatric Dentistry. Pediatric Dentistry is a clinical discipline concerned with the prevention and therapeutic procedures in order to maintain oral health in children from birth until the end of adolescence. In addition it includes the care of persons with disabilities regardless of age.</p> <p>The basis of teaching in Pediatric dentistry is mastering the skills necessary to achieve optimal oral health of children through the use of different preventive, health-educational and therapeutic procedures.</p> <p>All theoretical classes are accompanied by clinical practice aimed at training students to work independently.</p>					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Koch G., Poulsen S.: Pedodoncija-klinički pristup. Naklada Slap, Zagreb, 2005.					
	Andreasen F.M., Andreasen J.O., Bakland L.K., Flores M.T. : Traumatske ozljede zubi. Naklada Slap, Zagreb,					

	<ul style="list-style-type: none"> • to describe the clinical manifestations of genetic disorders in the orofacial area, their treatment options and prognosis • to record a family medical history and outline a family heredogram
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge on genetic diseases with emphasis on the diseases manifested in the cranio-facial region.</p> <p>Thematic units:</p> <ul style="list-style-type: none"> • History and Importance of oro-facial genetics. • Epidemiology of craniofacial malformations and genetic diseases • Dysmorphies of craniofacial structures (minor and major anomalies) • Genes and chromosomes as the bearers of the heritage (normal and abnormal structures) • Methods in genetics: family studies, population studies, twins studies, chromosomes and dermatoglyphics analysis • Examination and evaluation of the craniofacial region in craniofacial dysmorphia • Genetic anomalies of teeth: anomalies of number, shape, size and structure of the teeth • The most common chromosomal syndrome that affects orofacial structures (Down syndrome, fragile-X syndrome, Klinefelter syndrome and Turner syndrome) • Ectodermal dysplasia: classification, diagnosis and detection of heterozygotes • Metabolic disorders and craniofacial structures: Mucopolysaccharidosis, Mucopolidosis, Homocystinuria, Lesch-Nyhan syndrome • Genetic disorders of periodontal structures

	<ul style="list-style-type: none"> • Neurocutaneous syndromes and orofacial structures. • Syndromes associated with cleft lipa and palate (Rovin sequence, EEC syndrome, Van der Woude syndrome) • Genetic counseling in dental medicine 					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Škrinjarić I. Orofacijalna genetika. Zagreb: Školska knjiga; 2006.					
	Škrinjarić I. Orofacijalna genetika – repetitorij, Zagreb: Stomatološki fakultet Zagreb; 2004.					
	Škrinjarić I. Genetičke abnormalnosti zuba i orofacijalnih struktura. U: Zergollern Lj. (ur): Medicinska genetika. Zagreb: Školska knjiga; 1991					
	Škrinjarić I. Genetski činioci u etiologiji (mentalnih bolesti). U: Nikolić i sur. Mentalni poremećaji u djece i omladine. Zagreb: Školska knjiga; 1988.					
	Škrinjarić I, Nikolić S. Genetski aspekti mentalnih poremećaja. U: Nikolić S. i sur. Mentalni poremećaji u djece i omladine II. Zagreb: Školska knjiga; 1990.					
	Škrinjarić I. Dermatoglifi u medicinskoj genetici. U: Zergollern Lj. (ur.): Medicinska genetika I. Zagreb: Školska knjiga; 1991.					
Optional literature (at the time of submission of study programme proposal)	1. Stewart RE. Prescott G.H. Oral facial genetics. Saint Louis: The C.V.Mosby Company; 1976. 2. Gorlin RR. Levin LS. Syndromes of the head and neck. Oxford: Oxford University Press; 1990.					

	3. Opitz Ch, Witkowski R. Pincshert F. Genetisch bedingte Fehlbindungen in orofaziokraniellen Bereich. Berlin: Quintessence; 2001. 4. Melnick M. Shields ED. Burzynski NJ. Clinical dysmorphology of orofacial structures. Boston, Bristol, London: John Wright – PSG Inc; 1982. 5. Jorgenson RJ. Dentition: genetic effects. March of Dimes 6. Birth Defects Foundation : Original Article Series, Vol.19, No. 1, Alan R.Liss, Inc.,1983.
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Oral hygiene					
Code		Year of study	4th				
Course teacher	Professor Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Professor Andrija Bošnjak, DMD, PhD; Ivana Medvedec, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Marija Nosić DMD, MSc; Lidija Gavić DMD; Tea Galić DMD;	Type of instruction (number of hours)	L	S	E	T	
			10	10	10	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to define the importance of oral hygiene in dental pathology, periodontology, pediatric dentistry, oral medicine and orthodontics and special care for high risk patientsto explain the importance of dental plaqueto examine patients and carry out simple diagnostic procedures to determine the state of oral hygieneto familiarize with instruments in dental practiceto analyze the oral hygiene indeks						

	<ul style="list-style-type: none">• to analyze papilla bleeding indeks• to describe the effects and scope of mechanical and chemical means for oral hygiene• to explain to the patient the procedure of oral hygiene					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The importance of oral hygiene in comprehensive prevention of dental and oral diseases; The importance of oral hygiene in dental pathology; Oral hygiene in clinical pediatric dentistry.</p> <p>Oral hygiene in orthodontics; Appropriate methods and means of oral hygiene in periodontal patients; Specifics of oral hygiene in patients with removable prosthodontic appliances; Specifics of oral hygiene in patients undergoing chemotherapy and / or radiation malignancies of the head and neck; Control of infection in immunocompromised patients; Dentobacterial plaque; Mechanical control of supragingival dental plaque; Chemical control of supragingival dental plaque;</p> <p>Epidemiology of periodontal disease; Position of the patient in the chair and the position of the dental professional by the dental unit; Mastering the techniques of management basic dental instruments: mirror, probe and dental pincette;</p> <p>Approach to the patient and the first clinical examination; Methods motivation of the patient to maintain oral hygiene; Determination of oral hygiene index (OH); Determining papilla bleeding index (PBI); Instructing patient in oral hygiene maintenance; Selecting the appropriate tooth brush and aids for oral hygiene</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam					
Required literature (available in the	Title			Number of copies in	Availability via other media	

library and via other media)		the library	
	Wilkins EM. Clinical practice of the dental hygienist (certain chapters). 1994.		
	Clinical Periodontology and Implant Dentistry, 2 Volumes, Jan Lindhe, Niklaus P. Lang, Thorkild Karring, 5th Edition, 2008		
Optional literature (at the time of submission of study programme proposal)	<ol style="list-style-type: none"> 1. Besner E, Michanowicz AE, Michanowicz JP. A Clinical Atlas of Practical Endodontics (odabrana poglavlja), Mosby 2. Šutalo J i sur. Patologija i terapija tvrdih zubnih tkiva (odabrana poglavlja), Naklada Zadro 		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Oral medicine 1					
Code		Year of study	4th				
Course teacher	Professor Dolores Biočina Lukenda, DMD, PhD	Credits (ECTS)	4				
Associate teachers	Livia Cigić DMD, PhD; assist. prof. Sanja-Josipa Gruden-Pokupec, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	0	45	60	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to classify oral diseases• to name and describe the procedures in the diagnosis of oral diseases• to select and use oral tests for the diagnosis of oral diseases• to identify physiological characteristics of oral mucosa and distinguish them from pathological phenomena in the oral mucosa• to name and describe the macroscopic and microscopic pathological changes of oral mucosa• to name factors of oral cavity defense• to specify congenital and developmental anomalies of the mouth.						

	<ul style="list-style-type: none"> • to identify and describe the manifestations of systemic diseases on the oral mucosa • to identify and describe the injuries of the oral mucosa • to identify and describe the side effects of using medications on oral mucosa 	
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge and skills in diagnosing and treatment of oral diseases.</p> <p>Classification and diagnosis of oral diseases is followed by information on anatomical features and pathological phenomena in the oral mucosa and manifestations of systemic diseases on the oral mucosa as well as principles of diagnosis and treatment of other oral diseases.</p> <p>All theoretical classes are accompanied by seminars and clinical practice aimed at training students to work independently.</p> <p>Thematic sections:</p> <ul style="list-style-type: none"> - Morphological, physiological and pathological characteristics of oral mucosa - Diagnosis in oral medicine - Congenital and developmental anomalies of the mouth and oral genodermatoses - Oral disease as a consequence of systemic disorders - Oral immune diseases - Mucocutaneous autoimmune diseases - Infection of oral mucosa - Injuries of oral mucosal - Oral precancerosis - Oral symptoms - Salivary gland diseases - Oral diseases by topographic classification - Oral focal infections 	
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work	<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)
Student responsibilities	According to Study Regulations	

Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Oral exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	1. Cekić-Arambašin A. i suautori. Oralna medicina. Školska knjiga, Zagreb, 2005.					
Optional literature (at the time of submission of study programme proposal)	1. Burketova oralna medicina: dijagnoza i liječenje. 1. Hrvatsko izdanje, Medicinska naklada Zagreb, 2006. urednica Mravak-Stipetić M. 2. Laskaris G. Atlas oralnih bolesti. Hrvatsko izdanje, Naklada Slap, Zagreb, 2005. urednica Mravak Stipetić M 3. Langlais RP, Miller CS. Color atlas of common orsal diseases. Lippincott-Wilkins 4. Topić B. Diferencijalna dijagnoza i terapija bolesti oralnih sluznica. Stomatološki fakultet Sveučilišta u Sarajevu, Stomatološki fakultet Sveučilišta u Zagrebu 5. Newman MG, Winkelhoff. Antibiotic and Antimicrobial Use in Dental Practice, Quintessence Publishing Co 6. Vučićević-Boras V. Priručnik oralne medicine. Medicinska naklada ZagrebMalamed : Handbook of Lcal Anaesthesia, Mosby 1997, 7. J.O Andreasen i sur.: Textbook and Color Atlas of Tooth Impaction, Munksgaard					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Oral medicine 2			
Code		Year of study	5th		
Course teacher	Professor Dolores Biočina Lukenda, DMD, PhD	Credits (ECTS)	7		

Associate teachers	Livia Cigić DMD, PhD; assist. prof. Sanja-Josipa Gruden-Pokupec, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T
			25	25	60	110
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to identify and describe the injuries of the oral mucosa• to identify and describe the side effects of using medications on oral mucosa• to name, describe and identify diseases and disorders of the salivary glands and disorders in secretion of saliva• to classify oral immunological disorders• to name and describe the oral manifestations of immunodeficiencies• to identify and describe viral infections of the oral cavity• to identify and describe fungal infections of the oral cavity• to identify and describe the specific and nonspecific bacterial infections of the mouth• to classify mucocutaneous autoimmune diseases• to identify and describe changes in the mucocutaneous autoimmune diseases					
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge and skills in diagnosing and treatment of oral diseases.</p> <p>Classification and diagnosis of oral diseases is followed by information on anatomical features and pathological phenomena in the oral mucosa and manifestations of systemic diseases on the oral mucosa as well as principles of diagnosis and treatment of other oral diseases.</p> <p>All theoretical classes are accompanied by seminars and clinical practice aimed at training students to work independently.</p> <p>Thematic sections:</p> <ul style="list-style-type: none">- Morphological, physiological and pathological characteristics of oral mucosa- Diagnosis in oral medicine- Congenital and developmental anomalies of the mouth and oral genodermatoses- Oral disease as a consequence of systemic disorders- Oral immune diseases- Mucocutaneous autoimmune diseases					

	<ul style="list-style-type: none"> - Infection of oral mucosa - Injuries of oral mucosal - Oral precancerosis - Oral symptoms - Salivary gland diseases - Oral diseases by topographic classification - Oral focal infections 					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Oral exam, written and practical exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	1. Cekić-Arambašin A. i suautori. Oralna medicina. Školska knjiga, Zagreb, 2005.					
Optional literature (at the time of submission of study programme proposal)	1. Burketova oralna medicina: dijagnoza i liječenje. 1. Hrvatsko izdanje, Medicinska naklada Zagreb, 2006. urednica Mravak-Stipetić M. 2. Laskaris G. Atlas oralnih bolesti. Hrvatsko izdanje, Naklada Slap, Zagreb, 2005. urednica Mravak Stipetić M 3. Langlais RP, Miller CS. Color atlas of common orsal diseases. Lippincott-Wilkins 4. Topić B. Diferencijalna dijagnoza i terapija bolesti oralnih sluznica. Stomatološki fakultet Sveučilišta u Sarajevu, Stomatološki fakultet Sveučilišta u Zagrebu 5. Newman MG, Winkelhoff. Antibiotic and Antimicrobial Use in Dental Practice, Quintessence Publishing Co					

	6. Vučićević-Boras V. Priručnik oralne medicine. Medicinska naklada Zagreb Malamed : Handbook of Local Anaesthesia, Mosby 1997, 7. J.O Andreasen i sur.: Textbook and Color Atlas of Tooth Impaction, Munksgaard
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Oral medicine 3					
Code		Year of study	6th				
Course teacher	Professor Dolores Biočina Lukenda, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Livia Cigić DMD, PhD; assist. prof. Sanja-Josipa Gruden-Pokupec, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	0	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to identify and describe fungal infections of the oral cavityto identify and describe the specific and nonspecific bacterial infections of the mouthto classify mucocutaneous autoimmune diseasesto identify and describe changes in the mucocutaneous autoimmune diseasesto describe the symptom of burning and pain and disturbance of taste sensitivityto describe the diagnostic and therapeutic procedures in oral focal infectionsto select and administer a local therapeutic agent to a patient, depending on the diagnosisto consider and discuss the possible sequence of oral-laboratory and laboratory diagnostic procedures for each patient.to analyze and comment on the results of laboratory and radiological tests in oral medicine						
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course refers to the theoretical and practical knowledge and skills in diagnosing and treatment of oral diseases.</p> <p>Classification and diagnosis of oral diseases is followed by information on anatomical features and pathological phenomena in the oral mucosa and</p>						

	manifestations of systemic diseases on the oral mucosa as well as principles of diagnosis and treatment of other oral diseases.					
	All theoretical classes are accompanied by seminars and clinical practice aimed at training students to work independently.					
	Thematic sections:					
	<div>- Morphological, physiological and pathological characteristics of oral mucosa</div> <div>- Diagnosis in oral medicine</div> <div>- Congenital and developmental anomalies of the mouth and oral genodermatoses</div> <div>- Oral disease as a consequence of systemic disorders</div> <div>- Oral immune diseases</div> <div>- Mucocutaneous autoimmune diseases</div> <div>- Infection of oral mucosa</div> <div>- Injuries of oral mucosal</div> <div>- Oral precancerosis</div> <div>- Oral symptoms</div> <div>- Salivary gland diseases</div> <div>- Oral diseases by topographic classification</div> <div>- Oral focal infections</div>					
Format of instruction	<div><input type="checkbox"/> lectures</div> <div><input type="checkbox"/> seminars and workshops</div> <div><input checked="" type="checkbox"/> exercises</div> <div><input type="checkbox"/> <i>on line</i> in entirety</div> <div><input type="checkbox"/> partial e-learning</div> <div><input type="checkbox"/> field work</div>			<div><input type="checkbox"/> independent assignments</div> <div><input type="checkbox"/> multimedia</div> <div><input type="checkbox"/> laboratory</div> <div><input type="checkbox"/> work with mentor</div> <div><input type="checkbox"/> (other)</div>		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at	Oral exam, written and practical exam					

the final exam			
	Title	Number of copies in the library	Availability via other media
Required literature (available in the library and via other media)	1. Cekić-Arambašin A. i suautori. Oralna medicina. Školska knjiga, Zagreb, 2005.		
Optional literature (at the time of submission of study programme proposal)	1. Burketova oralna medicina: dijagnoza i liječenje. 1. Hrvatsko izdanje, Medicinska naklada Zagreb, 2006. urednica Mravak-Stipetić M.		
	2. Laskaris G. Atlas oralnih bolesti. Hrvatsko izdanje, Naklada Slap, Zagreb, 2005. urednica Mravak Stipetić M		
	3. Langlais RP, Miller CS. Color atlas of common orsal diseases. Lippincott-Wilkins		
	4. Topić B. Diferencijalna dijagnoza i terapija bolesti oralnih sluznica. Stomatološki fakultet Sveučilišta u Sarajevu, Stomatološki fakultet Sveučilišta u Zagrebu		
	5. Newman MG, Winkelhoff. Antibiotic and Antimicrobial Use in Dental Practice, Quintessence Publishing Co		
	6. Vučićević-Boras V. Priručnik oralne medicine. Medicinska naklada ZagrebMalamed : Handbook of Lcal Anaesthesia, Mosby 1997,		
	7. J.O Andreasen i sur.: Textbook and Color Atlas of Tooth Impaction, Munksgaard		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Oral surgery 1					
Code		Year of study	4th				
Course teacher	Assist. Prof. Ivan Galić, DMD, PhD	Credits (ECTS)	6				
Associate teachers	Jozo Badrov, DMD, MSc; Ivan Brakus, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			20	10	60	90	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course	<ul style="list-style-type: none">to quote and describe instruments, medicaments and remedies used in oral surgery						

(4 to 10 learning outcomes)	<ul style="list-style-type: none">to describe and perform clinical examination of a patient under the supervision of facultyto list and describe different techniques of diagnostic imaging of orofacial regionto describe techniques opisati tehniku and apply local anesthesia on model and patient under the supervision of facultyto list and describe techniques for tooth extractionto perform tooth extraction on models and patients under the supervision of facultyto stich oral wounds simulated on models and patients under the supervision of facultyto describe early and late complications of tooth extraction and local application of anesthetics					
Course content broken down in detail by weekly class schedule (syllabus)	Course includes theoretical and practical knowledge and skills related to oral surgery. Classes start off with lectures and pre-clinical exercises on phantoms (models, mannequins) set to dental units. Prior the admission to clinical practice, students must pass preliminary written examination on local anesthesia and tooth extraction. Clinical practice accentuate the acquisition of skills for taking anamnesis, clinical examination and extraction of teeth. The student must learn to solve various complications occuring during tooth extraction by using different instrumets and procedures to address the problem such as separation of dental roots. Students need to master the diagnosis and treatment options odontogenic infection, diagnosis of cystic lesions and benign tumors of the oral cavity, diagnosis of premalignant lesions and early detection of oral cancer. Interdisciplinary approach to presented knowledge about treatment options for impacted teeth is presented.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam and practical exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Knežević : Oralna kirurgija II, Medicinska naklada Zagreb, 2003					

	Miše: Oralna kirurgija, Jumena 1988		
	Grupa autora: Stomatološka dijagnostika i propedeutika, ispitno štivo, Stomatološki fakultet Zagreb, 1996		
	Grupa autora: Odabrana poglavlja iz gerontostomatologije, Stomatološki fakultet, Zagreb 2004.		
Optional literature (at the time of submission of study programme proposal)	(1.) Peterson i sur.: Contemporary Oral and Maxillofacial Surgery, Mosby 1998, S.F. (2.) Malamed : Handbook of Local Anaesthesia, Mosby 1997. (3.) J.O: Andreasen I sur.: Textbook and Color Atlas of Tooth Impaction, Munksgard 1997		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Oral surgery 2					
Code		Year of study	5th				
Course teacher	Assist. Prof. Ivan Galić, DMD, PhD	Credits (ECTS)	6				
Associate teachers	Jozo Badrov, DMD, MSc; Ivan Brakus, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	110	110	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to perform clinical examination of patient under the supervision of faculty• to interpret the findings of different diagnostic imaging techniques• to steadily apply acquired knowledge in determining differential diagnosis during the course of clinical practice• to perform different techniques for adminstration of local anesthetics• to perform teeth extractions on patients• to perform wound stiching on patients• to recognize late complications caused by tooth extraction and application of local anesthetics on patients• to assist during the surgical procedures under local and general anesthesia• to describe techniques for tissue sample procurement (biopsy)						
Course content broken down in detail by weekly class schedule	Course includes theoretical and practical knowledge and skills related to oral surgery. Classes start off with lectures and pre-clinical exercises on phantoms (models, mannequins) set to dental units. Prior the admission to clinical practice,						

(syllabus)	students must pass preliminary written examination on local anesthesia and tooth extraction. Clinical practice accentuate the acquisition of skills for taking anamnesis, clinical examination and extraction of teeth. The student must learn to solve various complications occurring during tooth extraction by using different instrumets and procedures to address the problem such as separation of dental roots. Students need to master the diagnosis and treatment options odontogenic infection, diagnosis of cystic lesions and benign tumors of the oral cavity, diagnosis of premalignant lesions and early detection of oral cancer. Interdisciplinary approach to presented knowledge about treatment options for impacted teeth is presented.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Knežević : Oralna kirurgija II, Medicinska naklada Zagreb, 2003					
	Miše: Oralna kirurgija, Jumena 1988					
	Grupa autora: Stomatološka dijagnostika i propedeutika, ispitno štivo, Stomatološki fakultet Zagreb, 1996					
	Grupa autora: Odabrana poglavlja iz gerontostomatologije, Stomatološki fakultet, Zagreb 2004.					
Optional literature (at the time of submission of study programme proposal)	(1.) Peterson i sur.: Contemporary Oral and Maxillofacial Surgery, Mosby 1998, S.F. (2.) Malamed : Handbook of Local Anaesthesia, Mosby 1997. (3.) J.O: Andreasen I sur.: Textbook and Color Atlas of Tooth Impaction, Munksgard 1997					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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)	
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NAME OF THE COURSE		Oral surgery 3					
Code		Year of study	6th				
Course teacher	Assist. Prof. Ivan Galić, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Jozo Badrov, DMD, MSc; Ivan Brakus, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	0	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to perform clinical examination of patient under the supervision of faculty• to interpret the findings of different diagnostic imaging techniques• to steadily apply acquired knowledge in determining differential diagnosis during the course of clinical practice• to perform different techniques for administration of local anesthetics• to perform teeth extractions on patients• to perform wound stitching on patients• to recognize late complications caused by tooth extraction and application of local anesthetics on patients• to assist during the surgical procedures under local and general anesthesia• to describe techniques for tissue sample procurement (biopsy)						
Course content broken down in detail by weekly class schedule (syllabus)	Course includes theoretical and practical knowledge and skills related to oral surgery. Classes start off with lectures and pre-clinical exercises on phantoms (models, mannequins) set to dental units. Prior the admission to clinical practice, students must pass preliminary written examination on local anesthesia and tooth extraction. Clinical practice accentuate the acquisition of skills for taking anamnesis, clinical examination and extraction of teeth. The student must learn to solve various complications occurring during tooth extraction by using different instruments and procedures to address the problem such as separation of dental roots. Students need to master the diagnosis and treatment options odontogenic infection, diagnosis of cystic lesions and benign tumors of the oral cavity, diagnosis of premalignant lesions and early detection of oral cancer. Interdisciplinary approach to presented knowledge about treatment options for impacted teeth is presented.						
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				

	<input type="checkbox"/> field work					
Student responsibilities	According to Study Regulations					
Screening student work <i>(name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Knežević : Oralna kirurgija II, Medicinska naklada Zagreb, 2003					
	Miše: Oralna kirurgija, Jumena 1988					
	Grupa autora: Stomatološka dijagnostika i propedeutika, ispitno štivo, Stomatološki fakultet Zagreb, 1996					
	Grupa autora: Odabrana poglavlja iz gerontostomatologije, Stomatološki fakultet, Zagreb 2004.					
Optional literature (at the time of submission of study programme proposal)	(1.) Peterson i sur.: Contemporary Oral and Maxillofacial Surgery, Mosby 1998, S.F. (2.) Malamed : Handbook of Local Anaesthesia, Mosby 1997. (3.) J.O: Andreassen I sur.: Textbook and Color Atlas of Tooth Impaction, Munksgard 1997					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Orthodontics 1					
Code		Year of study	4th				
Course teacher	Assistant professor Suzana Varga, DMD, PhD	Credits (ECTS)	5				
Associate teachers	Danijela Kalibović Govorko, DMD, PhD; Slavica Pejda, DMD, PhD; Branimira Mikelić Vitasović, DMD, MSc; Petar Bitanga, DMD; Neven Vidović, DMD, PhD; Zorana Ivanković Buljan, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			20	10	60	90	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to give the definition, meaning and purpose of orthodontics• to describe the history of the development of orthodontics• to describe and explain the prenatal and postnatal growth and development of the orofacial system• to describe and identify characteristics of deciduous, mixed and permanent dentition• to describe and explain chronology and phases of tooth exfoliation• to identify, explain and list the most common orthodontic anomalies• to list and classify the pathogenesis and etiology of malocclusion• to describe the clinical and functional characteristics of malocclusion• to describe and apply the diagnostic procedures in orthodontics• to perform clinical examination and identify orthodontic anomalies on a patient						
Course content broken down in detail by weekly class schedule (syllabus)	Orthodontics is an integral part of dental science and practice which, with its content, studying the prenatal and postnatal development of the dentition and the surrounding craniofacial structures, explaining the factors that adversely affect the growth and development of certain parts of the craniofacial complex, studies the clinical manifestations of certain malocclusions, follows epidemiological trends of malocclusion in the world and in the country, includes preventive, interceptive and therapeutic interventions with myofunctional, removable and fixed orthodontic appliances in order to establish a normal morphology, function and aesthetics of orofacial area while respecting the limitations of the individual optimum.						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				

	<input type="checkbox"/> field work					
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Proffit W i sur. Ortodoncija, Jastrebarsko: Slap, 2010.					
	Muretić Ž. I sur. Rendgenska kefalometrija: Školska knjiga, 2014.					
	Lapter V. i sur. Ortodontske naprave					
	Lapter V.: Ortodoncija za praktičare					
Optional literature (at the time of submission of study programme proposal)	1. Rakosi T., Graber T.M. Orthodontic and Dentofacial Orthopedic Treatment:Thieme, 2010. 2. Špalj S i sur.: Ortodontski priručnik, Rijeka: Medicinski fakultet, 2012 3. Bishara SE. Textbook of orthodontics. WB Saunders Company, Philadelphia, 2001. (Section I. Growth and development, pp. 1-98					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Orthodontics 2					
Code		Year of study	5th				
Course teacher	Assistant professor Suzana Varga, DMD, PhD	Credits (ECTS)	5				
Associate teachers	Danijela Kalibović Govorko, DMD, PhD; Slavica Pejda, DMD, PhD; Branimira Mikelić Vitasović, DMD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			20	10	60	90	

	Petar Bitanga, DMD; Neven Vidović, DMD, PhD; Zorana Ivanković Buljan, DMD, PhD;					
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> • to describe the principles of biomechanics in orthodontics • to describe the types of forces and their action • to describe the biomechanical mechanisms of bone remodeling in the course of therapy • to describe the principles of removable and fixed appliances' therapies • to describe and identify the most commonly used removable and fixed appliances • to describe and apply preventive and interceptive procedures and appliances • to compare treatment options with respect to age and possibility of retention and relapse • to describe and apply oral hygiene measures in orthodontic patient • to describe principles of orthodontic-surgical therapy • to develop multidisciplinary approach dealing with orthodontic anomalies 					
Course content broken down in detail by weekly class schedule (syllabus)	Orthodontics is an integral part of dental science and practice which, with its content, studying the prenatal and postnatal development of the dentition and the surrounding craniofacial structures, explaining the factors that adversely affect the growth and development of certain parts of the craniofacial complex, studies the clinical manifestations of certain malocclusions, follows epidemiological trends of malocclusion in the world and in the country, includes preventive, interceptive and therapeutic interventions with myofunctional, removable and fixed orthodontic appliances in order to establish a normal morphology, function and aesthetics of orofacial area while respecting the limitations of the individual optimum.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	

<i>equal to the ECTS value of the course)</i>	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)	Title				Number of copies in the library	Availability via other media
	Proffit W i sur. Ortodoncija, Jastrebarsko: Slap, 2010.					
	Muretić Ž. I sur. Rendgenska kefalometrija: Školska knjiga, 2014.					
	Lapter V. i sur. Ortodontske naprave					
	Lapter V.: Ortodoncija za praktičare					
Optional literature (at the time of submission of study programme proposal)	1. Rakosi T., Graber T.M. Orthodontic and Dentofacial Orthopedic Treatment:Thieme, 2010. 2. Špalj S i sur.: Ortodontski priručnik, Rijeka: Medicinski fakultet, 2012 3. Bishara SE. Textbook of orthodontics. WB Saunders Company, Philadelphia, 2001. (Section I. Growth and development, pp. 1-98					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Orthodontics 3					
Code		Year of study	6th				
Course teacher	Assistant professor Suzana Varga, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Danijela Kalibović Govorko, DMD, PhD; Slavica Pejda, DMD, PhD; Branimira Mikelić Vitasović, DMD, MSc; Petar Bitanga, DMD; Neven Vidović, DMD, PhD; Zorana Ivanković Buljan, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	0	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							

Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> • to describe and perform a clinical examination of orthodontic patient • to take and analyze the medical history • to identify clinical and functional characteristics of orthodontic anomalies • to assess patient's orthodontic treatment needs • to assessing the timing of orthodontic treatment • to preparing the patient for orthodontic referral • to develop multidisciplinary approach dealing with orthodontic anomalies 					
Course content broken down in detail by weekly class schedule (syllabus)	Orthodontics is an integral part of dental science and practice which, with its content, studying the prenatal and postnatal development of the dentition and the surrounding craniofacial structures, explaining the factors that adversely affect the growth and development of certain parts of the craniofacial complex, studies the clinical manifestations of certain malocclusions, follows epidemiological trends of malocclusion in the world and in the country, includes preventive, interceptive and therapeutic interventions with myofunctional, removable and fixed orthodontic appliances in order to establish a normal morphology, function and aesthetics of orofacial area while respecting the limitations of the individual optimum.					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Proffit W i sur. Ortodoncija, Jastrebarsko: Slap, 2010.					
	Muretić Ž. I sur. Rendgenska kefalometrija: Školska knjiga, 2014.					
	Lapter V. i sur. Ortodontske naprave					
	Lapter V.: Ortodoncija za praktičare					

Optional literature (at the time of submission of study programme proposal)	1. Rakosi T., Graber T.M. Orthodontic and Dentofacial Orthopedic Treatment: Thieme, 2010. 2. Špalj S i sur.: Ortodontski priručnik, Rijeka: Medicinski fakultet, 2012 3. Bishara SE. Textbook of orthodontics. WB Saunders Company, Philadelphia, 2001. (Section I. Growth and development, pp. 1-98)
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Periodontology 1					
Code		Year of study	4th				
Course teacher	Professor Andrija Bošnjak, DMD, PhD	Credits (ECTS)	6				
Associate teachers	Marija Nosić, DMD; Katica Parat, DMD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			30	0	60	90	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to list the most common periodontal diseasesto describe the etiology of the most common periodontal diseasesto describe principles of prevention of periodontal diseasesto describe principles of motivation and proper hygienic habits for successful periodontal therapyto describe diagnostic tools and methods used in periodontologyto describe the symptoms of acute and chronic periodontal diseaseto remove soft and hard plaque with ultrasonic and hand instruments under the supervision of faculty						
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course is applicable to periodontal theoretical and practical knowledge. Theoretical teaching is accompanied by preclinical and clinical exercises and seminars in order to train students for independent work.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- Anatomy of periodontal tissues- Dental plaque and tartar- Microbiology of periodontal disease						

	<ul style="list-style-type: none">- Classification, Epidemiology and Diagnosis of periodontal diseases caused by plaque and the changes are not caused by plaque- Consequences of gingival and periodontal diseases- Instruments and the principles of scaling and root planning- Initial therapy and recall- Agents for chemical plaque control- Antibiotics in the treatment of periodontitis- Periodontal disease as risk or consequences of general health					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Clinical Periodontology and Implant Dentistry, 2 Volumes, Jan Lindhe, Niklaus P. Lang, Thorkild Karring, 5th Edition, 2008					
	Color Atlas of Dental Medicine: Periodontology Hardcover, Herbert F. Wolf , Edith M. Rateitschak-Pluss , Klaus H. Rateitschak , 3th Edition, 2004					
	Carranzas Clinical Periodontology , Michael G. Newman, Fermin A. Carranza, Henry Takei, 9th Edition, 2002					
Optional literature (at the time of submission of study programme proposal)	1. Atlas of Cosmetic and Reconstructive Periodontal Surgery Misch Cohen, 2004 2. Antibiotics/Antimicrobial Use in Dental Practice, 2 nd ed, Newman/Winkelhoff					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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)	
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NAME OF THE COURSE		Periodontology 2					
Code		Year of study	5th				
Course teacher	Professor Andrija Bošnjak, DMD, PhD	Credits (ECTS)	6				
Associate teachers	Marija Nosić, DMD; Katica Parat, DMD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			25	25	60	110	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to implement principles of periodontal disease therapy and prevention during practical work• to motivate patients and instruct them for improving their hygienic habits• to set diagnosis and describe of most common periodontal diseases (acute and chronic periodontitis)• to participate in determination of therapeutic measures and in assessment possible outcomes of periodontal therapy in individual patients• to remove soft and hard plaque with ultrasonic instruments• to remove subgingival plaque and calculus with ultrasonic and hand instruments under the supervision of faculty• to immobilize movable teeth with custom shaped splints under the supervision of faculty						
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course is applicable to periodontal theoretical and practical knowledge. Theoretical teaching is accompanied by preclinical and clinical exercises and seminars in order to train students for independent work.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- Anatomy of periodontal tissues- Dental plaque and tartar- Microbiology of periodontal disease- Classification, Epidemiology and Diagnosis of periodontal diseases caused by plaque and the changes are not caused by plaque- Consequences of gingival and periodontal diseases- Instruments and the principles of scaling and root planning- Initial therapy and recall- Agents for chemical plaque control- Antibiotics in the treatment of periodontal disease- Periodontal disease as a risk or consequences of general health- Endodontics and periodontology						

	<ul style="list-style-type: none"> - Orthodontics and periodontology - Regenerative therapy - Bone resective surgery - Mucogingival esthetic surgery 					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written and oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Clinical Periodontology and Implant Dentistry, 2 Volumes, Jan Lindhe, Niklaus P. Lang, Thorkild Karring, 5th Edition, 2008					
	Color Atlas of Dental Medicine: Periodontology Hardcover, Herbert F. Wolf , Edith M. Rateitschak-Pluss , Klaus H. Rateitschak , 3th Edition, 2004					
	Carranzas Clinical Periodontology , Michael G. Newman, Fermin A. Carranza, Henry Takei, 9th Edition, 2002					
Optional literature (at the time of submission of study programme proposal)	1. Atlas of Cosmetic and Reconstructive Periodontal Surgery Misch Cohen, 2004 2. Antibiotics/Antimicrobial Use in Dental Practice, 2 nd ed, Newman/Winkelhoff					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Periodontology 3					
Code		Year of study	6th				
Course teacher	Professor Andrija Bošnjak, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Marija Nosić, DMD; Katica Parat, DMD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			0	0	50	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to implement principles of periodontal disease therapy and prevention during practical work• to motivate patients and instruct them for improving their hygienic habits• to set diagnosis and describe of most common periodontal diseases (acute and chronic periodontitis)• to participate in determination of therapeutic measures and in assessment possible outcomes of periodontal therapy in individual patients• to remove soft and hard plaque with ultrasonic instruments• to remove subgingival plaque and calculus with ultrasonic and hand instruments under the supervision of faculty• to immobilize movable teeth with custom shaped splints under the supervision of faculty						
Course content broken down in detail by weekly class schedule (syllabus)	<p>The course is applicable to periodontal theoretical and practical knowledge. Theoretical teaching is accompanied by preclinical and clinical exercises and seminars in order to train students for independent work.</p> <p>Thematic sections of the course are:</p> <ul style="list-style-type: none">- Anatomy of periodontal tissues- Dental plaque and tartar- Microbiology of periodontal disease- Classification, Epidemiology and Diagnosis of periodontal diseases caused by plaque and the changes are not caused by plaque- Consequences of gingival and periodontal diseases- Instruments and the principles of scaling and root planning- Initial therapy and recall- Agents for chemical plaque control- Antibiotics in the treatment of periodontal disease- Periodontal disease as a risk or consequences of general health- Endodontics and periodontology- Orthodontics and periodontology- Regenerative therapy- Bone resective surgery- Mucogingival esthetic surgery						

Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work	<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written and oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Clinical Periodontology and Implant Dentistry, 2 Volumes, Jan Lindhe, Niklaus P. Lang, Thorkild Karring, 5th Edition, 2008					
	Color Atlas of Dental Medicine: Periodontology Hardcover, Herbert F. Wolf , Edith M. Rateitschak-Pluss , Klaus H. Rateitschak , 3th Edition, 2004					
	Carranzas Clinical Periodontology , Michael G. Newman, Fermin A. Carranza, Henry Takei, 9th Edition, 2002					
Optional literature (at the time of submission of study programme proposal)	1. Atlas of Cosmetic and Reconstructive Periodontal Surgery Misch Cohen, 2004 2. Antibiotics/Antimicrobial Use in Dental Practice, 2 nd ed, Newman/Winkelhoff					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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	Surgery		
Code		Year of study	4th

Course teacher	Prof. Nikica Družijanić, MD, PhD	Credits (ECTS)	4			
Associate teachers	Prof. Zdravko Perko, MD, PhD; Prof. Nenad Ilić, MD, PhD; Prof. Vladimir Boschi, MD, PhD; Prof. Leo Grandić, MD, PhD; Assist. Prof. Ivo Jurić, MD, PhD; Assist. Prof. Zenon Pogorelić, MD, PhD; Assist. Prof. Arsen Pavić, MD, PhD; Bruno Lukšić, MD, PhD; Davor Todorić, MD, PhD; Joško Juričić, MD, PhD;	Type of instruction (number of hours)	L	S	E	T
			20	20	20	60
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to differentiate clinical cases of the most common surgical diseases, as well as effectiveness of surgical therapyto describe advantages and disadvantages of surgical therapy in comparison to nonsurgical therapyto estimate whether there are contraindications for dental medical treatment of frequently occurring illnesses in the domain of surgeryto explain the principles of emergency interventions in surgeryto explain the basic principles of traumatologyto describe treatment protocols for minor wounds according to the principles of antisepsis and asepsisto describe methods of immobilization in trauma and burn bandaging, frostbite and their post-surgical extended treatmentto differ various bandage materials, stitching materials, and classical surgical instrumentsto stop bleeding in oral cavityto identify some of the injuries and tumours in the oral cavity					
Course content broken down in detail by weekly class schedule (syllabus)	The class teaching program has been designed to fit the needs of the future doctors of dental medicine and it introduces them with the selected chapters of general and specialized surgery, especially with acute surgical diseases, their diagnosis, providing basic surgery aid and methods of surgical treatment. Some of the course contents are as following: Asepsis, aseptic work in a dental practice office and in operating room, the					

	function of the operating room and its instruments, infections in surgery, non-specific inflammation, cellulitis, phlegmonas, osteomyelitis, specific inflammation, anaerobic infections, wounds, primary treatment of wounds, wound healing, drainage, burns and frostbites , chemical, electrical and radiation injury, Crush and Blast syndrome, shock, multiorgan failure, the basics of oncology, transplantation surgery, craniocerebral injury, the basics of neck surgery, surgical diseases of the thyroid gland, surgical diseases and injuries of the chest, lungs and mediastinum, injury of the diaphragm, the basics of abdominal surgery, surgery of the stomach, small intestine surgery, colon surgery, surgery of the gallbladder, liver, pancreas and spleen, peritonitis, hernia, basics of urology, nephrolithiasis, obstructive uropathy, tumors of the genitourinary system, injuries of the locomotor apparatus, basics of immobilisation with transport and treatment, injuries of the vascular system, the principles of hemostasis with transport and treatment , venous thrombosis, the basics of angiosurgery.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Šoša T. et al: Kirurgija, Medicinska naklada, Zagreb – 2007.					
Optional literature (at the time of submission of study programme proposal)	Prpić I. et al: Kirurgija za medicinare. Školska knjiga, Zagreb, 2002.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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)	
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NAME OF THE COURSE		Psychiatry				
Code		Year of study	4th			
Course teacher	Prof. Goran Dodig, MD, PhD	Credits (ECTS)	1			
Associate teachers	assist. prof. Trpimir Glavina, MD, PhD; Assist. prof. Boran Uglešić, MD, PhD;	Type of instruction (number of hours)	L	S	E	T
			10	5	10	25
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> to recognize and describe principle psycho-pathological problems to classify psychiatric illnesses and disorders to describe emergency situations with respect to psychiatric patients to explain basic diagnostic methods used in psychiatry to explain treatment methods for psychiatric illnesses and disorders 					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Introduction to the basic principles of psychiatric therapy; Signs, symptoms and syndromes in general psychopathology; Classification of psychiatric illnesses and possibilities of their treatment; Side effects of therapeutic procedures; Addictions (drugs, alcohol, medicaments); Mental health education and stigmatization of mental illnesses.</p> <p>Following topics will also be presented: emergency situations in psychiatry; Mental disorders of elderly and aging population; Mental disorders caused by alcoholism; Schizophrenia and similar disorders.</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (name the	Class attendance		Research		Practical training	

<i>proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Oral exam, practical exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Hotujac Lj. i sur.: Psihijatrija, Medicinska naklada, 2005.					
	Muačević V. i sur. Psihijatrija. Zagreb: Medicinska naklada; 1995.					
Optional literature (at the time of submission of study programme proposal)	Kaplan H.I., Sadock B.J. Priručnik kliničke psihijatrije, Naklada Slap, Jastrebarsko, 1998.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Neurology					
Code		Year of study	4th				
Course teacher	prof. Ivo Lušić, MD, PhD	Credits (ECTS)	1				
Associate teachers	prof. Veselin Vrebalov-Cindro, MD, PhD; prof. Marina Titlić, MD, PhD; assist. prof. Meri Matijaca, MD, PhD; assist. prof. Gordan Džamonja, MD, PhD; assist. prof. Ivica Bilić, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			10	5	10	25	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment	Not applicable.						

requirements and entry competences required for the course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to recognize clinical signs and symptoms of the most common neurological diseases and syndromes• to adequately perform neurological examination• to value the importance of differential diagnosis• to propose specific neurological therapy for various neurological disorders• to monitor effectiveness of chosen therapeutic methods• to analyze outcomes of the treatment• to describe situations requiring urgent neurological intervention					
Course content broken down in detail by weekly class schedule (syllabus)	Review of neurological disorders - diagnostic and therapeutic problems in the practice of dental medicine. How can dentist identify the symptoms and signs of neurological disease? Diagnosis of neurological disorders. The importance of cerebrovascular diseases in dental medicine. Disorders of consciousness and epilepsy in dental practice. Movement disorders and extrapyramidal diseases and their importance in dentistry. Dental-medical aspects of demyelinating disease. Significance of tumor, trauma and inflammation of the central nervous system in dentistry. The aspects and influence of neurodegenerative diseases and dementia on clinical treatment in dentistry. Neuromuscular diseases and their importance in the dental practice. The importance of the peripheral nervous system diseases in dental-medical practice. Pathophysiology and treatment of pain. Headaches and craniofacial neuralgia. Swallowing disorders (bulbar and pseudobulbar palsy). Dental aspects of brain nerve disorders. Odontogenic infection as a possible risk factor for cerebrovascular disease. Effects of neurological diseases on the oral cavity health.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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	Title			Number of copies in the library	Availability via other media	

media)	Demarin Vida, Trkanjec Zlatko: Neurologija za stomatologe. Medicinska naklada, Zagreb, 2008.		
Optional literature (at the time of submission of study programme proposal)	Brinar Vesna i suradnici: Neurologija za medicinare. Medicinska naklada, Zagreb, 2009.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Maxillofacial surgery					
Code		Year of study	5th				
Course teacher	Prof. Naranđa Aljinović-Ratković, MD, PhD	Credits (ECTS)	2				
Associate teachers	Njegoslav Bušić, MD; Slaven Lupi-Ferandin, MD;	Type of instruction (number of hours)	L	S	E	T	
			15	0	30	35	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to explain the principles of setting diagnosis and treatment of persons with maxillofacial injuriesto recognize facial deformities and malformationsto describe and list of most common reconstructive techniques in plastic surgery applied for injury treatmentto recognize and discern prepoznati various neoplasms from inflammatory processes in the maxillofacial regionto recommend appropriate diagnostic tests for a patient before his referral to maxillofacial surgical treatment						
Course content	Introduction to maxillofacial surgery with respect to dental medicine since teeth						

broken down in detail by weekly class schedule (syllabus)	are integral part of the jaw. The students will be informed about facial deformities and orthognathic surgery (cooperation of maxillofacial surgeons and orthodontists). Introduction to the most common types of facial traumas and modern surgical techniques for the management of viscerocranial fractures. Students need to master the clinical procedures for detailed examination of various facial and neck anomalies and deformities. Etiology, epidemiology and treatment of tumors in the head, neck, oral cavity, paranasal sinuses and salivary glands will be presented. Diagnosis and therapy of skin tumors and current knowledge on reconstructive approaches in contemporary plastic surgery will also be discussed.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Maksilofacijalna kirurgija, M. Bagatin, M. Virag i sur., Šk. knjiga, Zagreb,1991.					
Optional literature (at the time of submission of study programme proposal)						
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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		Geriatric dentistry					
Code		Year of study	5th				
Course teacher	prof. Dolores Biočina Lukenda, DMD, PhD	Credits (ECTS)	1				
Associate teachers	assist.prof. Ivan Kovačić, DMD, PhD; Katica Parat, DMD, MSc; assist.prof. Marina Ognjenović Mirošević, DMD, PhD; Jozo Badrov, DMD, MSc;	Type of instruction (number of hours)	L	S	E	T	
			15	0	0	15	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe and compare physiology and medical aspects of aging with overall health of elderly people• to describe similarities and differences of diagnostic and therapeutic procedures in dental healthcare for old people and those people in need for constant care• to compare possibilities of providing dental healthcare for patients in homes for the elderly and nursing centers• to compare possibilities for proper treatment of physically and mentally handicapped elderly people• to assess the importance of collaboration between medical doctors and dental professionals in improvement of dental healthcare for aging population						
Course content broken down in detail by weekly class schedule (syllabus)	Physiology of aging from molecular to systemic (whole organism) level. Medical aspects of aging; health of the elderly population; Basics of etiology and epidemiological distribution of the most common diseases occurring in aging population. Introduction to the changes and diseases of both hard and soft oral tissues of elderly people and practical account on the specific features of clinical approach, diagnosis, treatment plan and therapy for the elderly patients. Gaining knowledge of the possibilities and peculiarities of oral and maxillofacial surgery, prosthodontics, oral medicine, periodontics, dental implantology, endodontics and dental pathology seen in elderly people with emphasis on pharmacological, psychiatric, somatic and psychosocial problems.						
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
Student responsibilities	According to Study Regulations						

Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Ćatović A. Odabrana poglavlja iz gerontostomatologije. Stomatološki fakultet Sveučilišta u Zagrebu, Zagreb, 2004.					
Optional literature (at the time of submission of study programme proposal)	Holm-Pederson P, Loe H.. Textbook of geriatric dentistry. Munksgaard, Copenhagen 1986.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Implantology					
Code		Year of study	5th				
Course teacher	Professor Andrija Bošnjak, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Marija Nosić, DMD;	Type of instruction (number of hours)	L	S	E	T	
	Jozo Badrov, DMD, MSc; Juraj Brozović, DMD;		15	10	15	40	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and	Not applicable.						

entry competences required for the course						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to explain the main principles of osseointegration of dental implants• to explain main features of oral mucosa surrounding dental implant• to list indications for treating partially edentulous and completely edentulous patients by using dental implants• to describe the clinical process and duration of therapy with dental implants• to list and describe components of various dental implant systems, as well as the types of superstructures mounted on dental implants					
Course content broken down in detail by weekly class schedule (syllabus)	Classes are based on lectures and educational films. Students are introduced to the experimental model in the studying of implants. Students are taught how to perform clinical and radiological examination of patients and preparation for implantation: prosthetic planning, making a surgical template. They are shown some clinical cases with successful and unsuccessful implant rehabilitation. Students are introduced to all local and general contraindications for the described rehabilitation and the possible intraoperative and postoperative complications lifting the maxillary sinus, bone inlay and onlay.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Clinical Periodontology and Implant Dentistry, 2 Volumes, Jan Lindhe, Niklaus P. Lang, Thorkild Karring, 5th Edition, 2008					
	Knežević G. i sur. Osnove dentalne implantologije. Zagreb: Školska knjiga; 2002.					
Optional literature (at the time of	Practical Implant Dentistry: Diagnostic, Surgical, Restorative and Technical					

submission of study programme proposal)	Aspects of Aesthetic and Functional Harmony Hardcover; Ashok Sethi, Thomas; 1th Edition 2005
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Gynaecology					
Code		Year of study	5th				
Course teacher	prof. Deni Karelović, MD, PhD	Credits (ECTS)	1				
Associate teachers	prof. Damir Roje, MD, PhD; assist. prof. Marko Vulić, MD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			10	0	10	20	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe anatomy definirati and physiology of female reproductive system• to perform taking of gynecological medical history to determine clinical status of patient under supervision of faculty• to describe principles of prenatal care, delivery and postnatal care• to describe and explain epidemiology, diagnostic procedures, clinical treatment and prevention of female reproductive organs diseases• to list and explain principles of preservation of female reproductive health						
Course content broken down in detail by weekly class schedule (syllabus)	General gynecological problems, gynecological endocrinology and reproduction, gynecological oncology and urogynecology. Physiology and pathology of pregnancy and childbirth, neonatology.						
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)				
	Student responsibilities						
According to Study Regulation							

Screening student work <i>(name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Kuvačić I. i sur. Porodništvo. Zagreb: Medicinska naklada; 2009.					
	Šimunić V. i sur. Ginekologija. Zagreb: Naklada Ljevak; 2001.					
Optional literature (at the time of submission of study programme proposal)	Kurjak i sur. Ginekologija i perinatologija. Tonimir. Varaždinske Toplice, 2005.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Pediatrics					
Code		Year of study		5th			
Course teacher	Prof. Vjekoslav Krželj, MD, PhD	Credits (ECTS)		3			
Associate teachers	Prof. Marijan Saraga, MD, PhD; Prof. Srđana Čulić, MD, PhD; Prof. Veselin Škrabić, MD, PhD; Prof. Julije Meštrović, MD, PhD; Prof. Vida Čulić, MD, PhD; Prof. Neven Pavlov, MD,	Type of instruction (number of hours)		L	S	E	T
				30	0	20	50

	PhD; Assist. Prof. Ivana Unić, MD, PhD; Assist. Prof. Radenka Kuzmanić Šamija, MD, PhD; Assist. Prof. Joško Markić, MD, PhD					
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> • to obtain and analyze medical history and clinical status • to perform the oral examination of a child patient • to describe physiology and pathology of the tooth growth • to describe nutrition disorders and vitamin deficiency in children • to identify the most important infections with impact on oral cavity in children 					
Course content broken down in detail by weekly class schedule (syllabus)	<p>Accidents in children. Nutrition and nutrition disorders. Fluid and electrolytes disorders, acid base imbalance. Children's propedeutics. Anomalies and infections of the urinary tract. Neonatal diseases. Convulsions and epilepsy. Metabolic disorders of Ca and P. Rickets. Bone disorders. Psychomotor development of the child. Medical history and neurological status. Vitamins and oligoelements as a part of the nutrition. Antibiotic therapy in pediatrics. Fever – impact and procedures. Sudden infant death syndrome. Prevention of the preventable illnesses. Cardiac failure. Cardiopulmonary reanimation. Principles of the intensive treatment and care of the critically sick child. Multiple sclerosis. Diabetes melitus, Diabetes insipidus. Malabsorption syndrome. Red blood cells disorders. Ulcers. Obstipation. Chronic intestinal illnesses (Chron's disease, ulcerative colitis, acute and chronic diarrhea). Coagulation disorders. Solid tumors. Tuberculosis. Inheritance and inherited disorders, especially the ones affecting the growth and development of the teeth. Respiratory illnesses, foreign body aspiration. Allergies. Bacterial endocarditis prophylaxis. Congenital and acquired heart diseases. Shock.</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of</i>	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	

<i>ECTS credits is equal to the ECTS value of the course)</i>	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Oral exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Duško Mardešić: Pedijatrija, Školska knjiga, Zagreb, 2003.					
Optional literature (at the time of submission of study programme proposal)	1 Nelson Textbook of Pediatrics (Behrman, Kliegman, Jenson), Philadelphia : W.B.Saunders Company, cop. 2003. 2 Fedor Raić i sur.: Pedijatrijska gastroenterologija, Naklada Ljevak, Zagreb, 2002.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Forensic dentistry					
Code		Year of study	6th				
Course teacher	prof. Šimun Anđelinović, MD, PhD	Credits (ECTS)	2				
Associate teachers	Darko Kero, DMD, PhD; MSc Ivana Anterić, PhD; MSc Željana Drnasin, PhD; prof. Dolores Biočina-Lukenda, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			15	0	15	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to quote definition and principal features of the occurrence of deathto particularize and describe the signs of postmortal changes on the bodyto describe procedures for assessment of time of death (exhumation, investigation, body examination, autopsy)						

	<ul style="list-style-type: none">• to describe mechanical, asphyctic and psychological injuries, common features of traumas suffered in traffic accidents, as well as those caused by domestic violence• to describe and compare characteristics of injuries inflicted on certain parts of the body• to describe procedures and instruments used for dental identification• to explain importance and benefits of proper record keeping (patient's charts, radiographs, etc.) for dental identification of human remains• to describe isolation of DNA and DNA analysis from dental tissues• to describe and perform analysis of human bite marks• to describe legal responsibilities and accountability for dental professionals					
Course content broken down in detail by weekly class schedule (syllabus)	<p><u>Basics of tanatology</u> (definition of death and its features; apparent death, agony; signs of death, postmortal changes; approximation of time of death, initial examination of the corpse, autopsy, exhumation, investigation)</p> <p><u>Health impairment due to violence</u> – basics of forensic traumatology (mechanical injuries, asphyctic injuries, psychological damage; traumas suffered in traffic accidents; suicide and homicide; domestic violence)</p> <p><u>Basics of forensic toxicology</u> (poisonous substances, taking samples for toxicology analysis; intoxication with drugs and alcohol)</p> <p>Dental identification - procedure, preparation, instruments and analysis</p> <p><u>Basics of medical criminalistics</u></p> <p><u>Identification</u> (methods; mass casualties)</p> <p>Forms for dental tissue status data input; keeping records in dental practice</p> <p>Identification in dentistry (DNA analysis of dental tissues; hereditary and acquired features of dental anatomy important for identification of human remains sex and race determination according to dental and craniofacial features; determination of time of death using dental techniques in forensics)</p> <p><u>Judicial expertise in dental medicine</u></p> <p><u>Medical deontology</u></p> <p>Legal responsibilities and accountability for dental professionals</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (name the proportion of ECTS credits for each	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	

<i>activity so that the total number of ECTS credits is equal to the ECTS value of the course)</i>	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Brkić H. i sur. Forenzična stomatologija. 1. izd. Zagreb: Školska knjiga, 2000.					
Optional literature (at the time of submission of study programme proposal)	Zečević D, Škavić J. Osnove sudske medicine za pravnike. Zagreb: Barbat, 1996.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Public health and epidemiology					
Code		Year of study	6th				
Course teacher	Associate Professor Mladen Smoljanović, PhD	Credits (ECTS)	2				
Associate teachers	Associate Professor Ozren Polašek, PhD; Assistant Professor Ivana Kolčič, PhD; Iris Jerončić, PhD;	Type of instruction (number of hours)	L	S	E	T	
			25	10	15	50	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the	<ul style="list-style-type: none">to enlist and describe basics of health-related researchto explain which risk factors affect population health						

level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to describe main determinants of mass-occurring diseasesto describe levels of health careto describe basic methods of epidemiological research in public health					
Course content broken down in detail by weekly class schedule (syllabus)	Principles of health care, health indicators. International classification of diseases, health needs and demands. Social factors that affect health, disease and disability. Public health of dental care in special population groups – children and elderly. Intervention programmes and preventive measure. Planning, organization and health care management. Basics of medical ethics. Basic of epidemiology, natural course of the disease, epidemiological models of communicable and non-communicable diseases. Professional associations. Data sources. Disease distribution, screening and epidemiology of selected examples related to dental medicine.					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Jonjić A. i sur. Socijalna medicina.Vitagraf Rijeka, 2002.					
	Puntarić D, Ropac D. Opća epidemiologija, Medicinska naklada, Zagreb, 2005.					
Optional literature (at the time of submission of study programme proposal)	Jonjić A. Zašto piti i pušiti. Tiskara Rijeka, 1993.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">Teaching quality analysis by students and teachersExam passing rate analysisCommittee for control of teaching reportsExternal evaluation					
Other (as the						

proposer wishes to add)	
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NAME OF THE COURSE		Organization and economics of dental healthcare					
Code		Year of study	6th				
Course teacher	Professor Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	2				
Associate teachers	Neven Vidović, DMD, PhD;	Type of instruction (number of hours)	L	S	E	T	
			10	10	5	30	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to analyze the multidisciplinary approach to health in terms of professional medical knowledge and skills required for leading and managing the health systemto list the main institutions of the dental health care system in Croatiato describe and examine the processes of planning, operation and management in health careto describe and examine the processes of planning, operation and management in health careto specify and describe management skillsto describe the manner and the possibilities of applying management skills in everyday professional work						
Course content broken down in detail by weekly class schedule (syllabus)	<p>In recent years in our society is becoming clear that healthcare is associated to the economic and market conditions; supply (knowledge and services of the medical professionals) and patient demand (customer service). Therefore, the definition of management "as the process of getting things done through other people, and with them, in order to achieve organizational goals in a dynamic environment, with effective use of limited resources" can be used for the health care system. Every process must start from the needs of the "customers" and finish up to their complete satisfaction. That principle can be used in the strict sense - physician-patient or in a broader sense - a doctor - the head of the health institution. Therefore, a student is expected that along aside basic skills and knowledge possesses also education for the leadership and management, the ability to apply new knowledge and accept the benefits of new technological developments. The purpose of this course is to familiarize and train students, on the administrative ways of health systems / subsystems as well as the basics of managerial skills, applicable in everyday professional work but also in management activities. Furthermore, the goal is to show students the practical application of management skills based on real experiences and the current situation in the health sector due</p>						

	<p>to the peculiarity of our community.</p> <p>Topics to be covered are: health financing, health legislation, differences in the functioning management of various medical institutions, management of health systems subsystems, application implementation quality control in healthcare. Students will obtain the basic knowledge of managerial vještina-communication, application of innovation, the introduction of changes, motivation self-awareness.</p>					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library	Availability via other media	
	Betty L F. Practice management for the dental team. Mosby: 2001.					
	Heller R. Priručnik za menadžere. Zagreb: Profil International; 2003.					
	Srića V. Inventivni menadžer u 100 lekcija. Zagreb: Znanje; 2003.					
Optional literature (at the time of submission of study programme proposal)	1. Hooper A, Potter J. Intelligent leadership. London: Random House; 2001. 2. Heller R, Hindle T. Essential manager's manual, London: Dorling Kindersley. 1999. 3. Heller R, Hindle T. Managing for excellence. London: Dorling Kindersley 2003.					
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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 dentistry					
Code		Year of study	6th				
Course teacher	Professor Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	16				
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD; Slavica Pejda, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Livia Cigić, DMD, PhD; Darko Kero, DMD, PhD; Marija Nosić, DMD, MSc; Tea Galić, DMD;	Type of instruction (number of hours)	L	S	E	T	
			0	0	0	250	
Status of the course	Mandatory	Percentage of application of e-learning	0%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">to comprehend specific roles of professional in dental medicine, as well as to perceive the organization of dental office with respect to its impact on working conditions and performanceto discern differences between general dental practice and specialized dental practices within particular disciplines of dental medicineto recognize features of dental healthcare within general dental practiceto demonstrate appropriate bearing towards patients of different age and different walks of lifeto perform clinical decision making under the supervision of facultyto describe the methods of record keeping in order to run efficient dental office						
Course content broken down in detail by weekly class schedule (syllabus)	<p>Clinical Dental Medicine:</p> <p>The characteristics of dental health services at the primary level, which is carried out and organized as teamwork involving at least one dental health care worker with completed undergraduate and graduate university study or integrated undergraduate and graduate university study of dental medicine (which is also a mentor to the student);</p> <p>Characteristics of clinical dental medicine, its working tasks, organization, financing and operation of clinical dental medicine in Europe; Characteristics of health problems in clinical dentistry; Medical documentation. Cooperation with consultants, the referral to specialists; Specific characteristics of clinical procedures</p>						

	in dental medicine; Optimal space for clinics in dental medicine according to statutory regulations; professional organization of work; making appointments and receiving patients; Teamwork in community dental medicine; Management of dental offices as business units. Administrative and legal obligations. Health education and preventive measures activities.					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam					
Required literature (available in the library and via other media)	Title			Number of copies in the library	Availability via other media	
	Koch G, Poulsen S. Pedodonticja - klinički pristup, Naklada Slap, Jastrebarsko, 2005.					
	Anderson M.H., Bratthall D., Einwag J., Elderton R.J. Profesional prevention in dentistry, Williams & Wilkins					
	Kidd E.A.M., Joyston-Bechal S. Essentials of Dental Caries. Oxford university press. 2000.					
	Fejerskov O. and Kidd E.. Dental Caries-The disease and its clinical management. Blackwell Munksgaard, 2009.					
	Axelsson P. - Diagnosis and risk prediction of Dental Caries, Quintessence publishing. 2000.					
Lynch i sur Harris NO, Garcia Godoy F, Nielsen Nathe C. Primary preventive dentistry. Burketés Oral Medicine. Diagnosis and treatment.						

	Lippincott-Raven		
	Clinical Periodontology & Implant Dentistry, Jan Lindhe, Thorkild Karring IV izdanje, 2003		
	Graber T.M., Vanarsdall R.L.Jr. Orthodontics – Current Principles and Techniques Mosby, 1994.		
	Knežević : Oralna kirurgija II, Medicinska naklada Zagreb, 2003.		
Optional literature (at the time of submission of study programme proposal)	E. W. Odell. Clinical problem solving in Dentistry. Elsevier, Churchill Livingston, 2010.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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		Elective courses in clinical dentistry				
Code		Year of study	6th			
Course teacher	Professor Dolores Biočina-Lukenda, DMD, PhD	Credits (ECTS)	16			
Associate teachers	Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD; Slavica Pejda, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Livia Cigić, DMD, PhD; Darko Kero, DMD, PhD; Marija Nosić, DMD, MSc; Tea Galić, DMD;	Type of instruction (number of hours)	L	S	E	T
			0	0	0	250
Status of the course	Mandatory	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					

Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none">• to describe opisati basic theoretical and practical principles of pathophysiology, clinical outlook and treatment of the most common diseases with respect to particular disciplines of dental medicine• to describe and regularly use the most efficient diagnostic tools and imaging techniques in order to successfully set specific diagnosis• to compare and analyse short and long term efficiency of different therapeutic approaches with respect to particular disciplines in dental medicine• to apply acquired theoretical and practical knowledge while performing practice in specialized dental offices• to perform clinical decision making under the supervision of faculty					
Course content broken down in detail by weekly class schedule (syllabus)	Elective courses in clinical dentistry take 240 hours of clinical practice with respect to following disciplines: pediatric dentistry, orthodontics, periodontology, oral medicine, endodontics and restorative dentistry, oral surgery, removable and fixed prosthodontics. During the elective courses student are given choice of taking part in clinical practice of at least three specific disciplines (80 hours per each) within the following branches of related expertise: branch 1 (oral medicine, periodontology and oral surgery); branch 2 (restaurative dentistry, endodontics, prosthodontics); branch 3 (pediatric dentistry, orthodontics).					
Format of instruction	<input type="checkbox"/> lectures <input type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	According to Study Regulations					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam	Written exam, oral exam, practical exam					
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	Koch G, Poulsen S. Pedodoncija - klinički pristup, Naklada Slap, Jastrebarsko, 2005.					
	Anderson M.H., Bratthall D., Einwag J., Elderton R.J. Profesional prevention in dentistry, Wiliams & Wilkins					

	Kidd E.A.M., Joyston-Bechal S. Essentials of Dental Caries. Oxford university press. 2000.		
	Fejerskov O.and Kidd E.. Dental Caries-The disease and its clinical management. Blackwell Munksgaard, 2009.		
	Axelsson P. - Diagnosis and risk prediction of Dental Caries, Quintessence publishing. 2000.		
	Lynch i sur Harris NO, Garcia Godoy F, Nielsen Nathe C. Primary preventive dentistry. Burketés Oral Medicine. Diagnosis and treatment. Lippincott-Raven		
	Clinical Periodontology & Implant Dentistry, Jan Lindhe, Thorkild Karring IV izdanje, 2003		
	Graber T.M., Vanarsdall R.L.Jr. Orthodontics – Current Principles and Techniques Mosby, 1994.		
	Knežević : Oralna kirurgija II, Medicinska naklada Zagreb, 2003.		
Optional literature (at the time of submission of study programme proposal)	E. W. Odell. Clinical problem solving in Dentistry. Elsevier, Churchill Livingston, 2010.		
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> ▪ 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	Elective course		
	List of contents of all elective courses (which are not available as online courses) is attached separately to this study program		
Code		Year of study	Not applicable

Course teacher		Credits (ECTS)	2 per each elective course (25 hours)			
Associate teachers		Type of instruction (number of hours)	L	S	E	T
Status of the course	Elective	Percentage of application of e-learning	0%			
COURSE DESCRIPTION						
Course enrolment requirements and entry competences required for the course	Not applicable.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)						
Course content broken down in detail by weekly class schedule (syllabus)	Pre-clinical and Clinical Elective courses					
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work		<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	In accordance to Rules of studying and Deontological code for USSM students.					
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	Class attendance		Research		Practical training	
	Experimental work		Report		(Other)	
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	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)	Title			Number of copies in the library		Availability via other media
	Handouts, lecture notes					
Optional literature (at the time of submission of study programme)						

proposal)	
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none"> 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		Elective course (online)					
		List of contents of all elective courses (which are not available as online courses) is attached separately to this study program					
Code		Year of study	Not applicable				
Course teacher		Credits (ECTS)	2 per each elective course (25 hours)				
Associate teachers		Type of instruction (number of hours)	L	S	E	T	
Status of the course	Elective	Percentage of application of e-learning	100%				
COURSE DESCRIPTION							
Course enrolment requirements and entry competences required for the course	Not applicable.						
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)							
Course content broken down in detail by weekly class schedule (syllabus)	Pre-clinical and Clinical Elective courses						
Format of instruction	<input checked="" type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input checked="" type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input type="checkbox"/> field work			<input type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> work with mentor <input type="checkbox"/> (other)			
Student responsibilities	In accordance to Rules of studying and Deontological code for USSM students.						
Screening student work (name the proportion of ECTS credits for each activity so that the total number of	Class attendance		Research		Practical training		
	Experimental work		Report		(Other)		
	Essay		Seminar essay		(Other)		

ECTS credits is equal to the ECTS value of the course)	Tests		Oral exam		(Other)	
	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)	Title				Number of copies in the library	Availability via other media
	Handouts, lecture notes					
Optional literature (at the time of submission of study programme proposal)						
Quality assurance methods that ensure the acquisition of exit competences	<ul style="list-style-type: none">▪ 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)						

2. STUDY PERFORMANCE CONDITIONS

2.1. List of lecturers and associate lecturers

Course	Teachers and associate teachers
Anaesthesiology and Intensive Medicine	assist. prof. Nenad Karanović, MD, PhD asist. prof. Mladen Carev, MD, PhD assist. prof. Marko Jukić, MD, PhD assist. prof. Mihajlo Lojpur, MD, PhD Vjera Marinov, MD, PhD Božena Ivančev, MD, PhD Ivan Agnić, MD, PhD Božidar Duplančić, MD, MSc Dragica Kopic, MD, MSc Željko Ninčević, MD, MSc Dubravka Kocen, MD, MSc
Anatomy	prof. Ivica Grković, MD, PhD; prof. Katarina Vilović, MD, PhD; Irena Pintarić, MD, PhD; prof. Katarina Vukojević, MD, PhD; Assist.prof. Natalija Filipović, MDVet, PhD;

	Antonia Jeličić Kadić, MD, PhD; Milka Jerić, MD; Ana Vuica, MD; Nikola Ključević, MD;
Biochemistry	Prof. Irena Drmić Hofman, PhD; Assoc. Prof. Anita Markotić, PhD; Assist. Prof. Vedrana Čikeš Čulić, PhD; Angela Mastelić, MSc; Nikolina Režić Mužinić, MSc;
Biophysics	Prof. Davor Eterović, PhD; Assist. prof. Marija Raguž, PhD; Assist. prof. Damir Kovačić, PhD; Darijo Radović, MD, MSc; dr.med;
Cariology	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;
Clinical Dentistry	Professor Dolores Biočina-Lukenda, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD; Slavica Pejda, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Livia Cigić, DMD, PhD; Darko Kero, DMD, PhD; Marija Nosić, DMD, MSc; Tea Galić, DMD;
Dental Anatomy and Anthropology	prof. Katarina Vilović, MD, PhD; Darko Kero, DMD, PhD; Nikica Pirović, DMD, MSc; Danijela Kalibović Govorko, DMD, PhD;
Dermatovenereology	Prof. Neira Puizina-Ivić, MD, PhD; Deny Anđelinović, Ph.D; Antonela Čarija, MD; Ranka Ivanišević, MD; Olga Kosor MD;
Elective Courses in Dentistry	Professor Dolores Biočina-Lukenda, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD; Slavica Pejda, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Livia Cigić, DMD, PhD; Darko Kero, DMD, PhD; Marija Nosić, DMD, MSc; Tea Galić, DMD;
Endodontics 1	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;
Endodontics 2	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;
Endodontics 3	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;
Ethics in Dental Medicine	Darko Kero, DMD, PhD;
Fixed Prosthodontics 1	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD,

	PhD;
Fixed Prosthodontics 2	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;
Fixed Prosthodontics 3	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;
Fixed Prosthodontics 4	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Assistant professor Renata Poljak-Guberina, DMD, PhD;
Forensic Dentistry	prof. Šimun Anđelinović, MD, PhD; Darko Kero, DMD, PhD; MSc Ivana Anterić, PhD; MSc Željana Drnasin, PhD; prof. Dolores Biočina-Lukenda, DMD, PhD;
General and Community Dentistry	Darko Kero, DMD, PhD; Nikica Pirović, DMD, MSc; Danijela Kalibović Govorko, DMD, PhD;
General Radiology and Radiology of Orofacial Region	Prof. Ante Buča, MD, PhD; Prof. Liana Cambj-Sapunar, MD, PhD; Prof. Igor Barišić, MD, PhD; Assist. Prof. Tade Tadić, MD, PhD; Assist. Prof. Tonči Batinić, MD, PhD; Gordana Glavina, MD; Krešimir Kolić, MD; Ivana Štula, MD, PhD;
Geriatric Dentistry	prof. Dolores Biočina Lukenda, DMD, PhD; assist.prof. Ivan Kovačić, DMD, PhD; Katica Parat, DMD, MSc; assist.prof. Marina Ognjenović Mirošević, DMD, PhD; Jozo Badrov, DMD, MSc;
Gynaecology	prof. Deni Karelović, MD, PhD; prof. Damir Roje, MD, PhD; assist. prof. Marko Vulić, MD, PhD;
Gnathology	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD;
Histology and Embriology	Prof. Mirna Saraga Babić, MD, PhD; Assist. Prof. Sandra Kostić, MSc; Prof. Damir Sapunar, MD, PhD; Assist. Prof. Livia Puljak, MD, PhD; Assist. Prof. Snježana Mardešić, MD, PhD; Svjetlana Došenović, MD;
Implantology	Professor Andrija Bošnjak, DMD, PhD; Marija Nosić, DMD; Jozo Badrov, DMD, MSc; Juraj Brozović, DMD;
Immunology and Medical Genetics	prof. Janoš Terzić, MD, PhD; Prof. Ivana Marinović Terzić, PhD; Assist. prof. Ivana Novak Nakir, PhD; Jelena Korać Prlić, PhD; Mija Marinković, MSc; Marina Degoricija, dipl.ing;
Infectology	prof. Nikola Bradarić, MD, PhD; prof. Boris Lukšić, MD, PhD; asist prof. Dragan Ledina, MD, PhD; prof. Ivo Ivić, MD, PhD;

	Dominko Carev, MD, PhD; Nikica Kuzmičić, MD;
Internal Medicine	prof. Jugoslav Bagatin, MD, PhD; prof. Miroslav Šimunić, MD, PhD; prof. Damir Fabjanić, MD, PhD; prof. Ante Tonkić, MD, PhD; Assist. prof. Ivica Vuković, MD, PhD; prof. Kornelija Miše, MD, PhD; prof. Dragan Ljutić, MD, PhD; Assist. prof. Nediljko Pivac, MD, PhD; Assist. prof. Mladen Krnić, MD, PhD;
Introduction to Dentistry and History of Dentistry	Darko Kero, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Nikica Pirović, DMD, MSc;
Materials in Dental Medicine	Assistant professor Ivan Kovačić, DMD, PhD; Professor Dolores Biočina-Lukenda, DMD, PhD; Assistant professor Marina Ognjenović Mirošević, DMD, PhD; Jozo Badrov, DMD, MSc; Slavica Pejda, DMD, PhD;
Maxillofacial Surgery	Prof. Naranda Aljinović-Ratković, MD, PhD; Njegoslav Bušić, MD; Slaven Lupi-Ferandin, MD;
Medical Biology	Prof. Tatijana Zemunik, M.D; Assist. Prof. Vesna Boraska Perica, Ph.D.; Ivana Gunjača, MSc; Nikolina Vidan, MSc;
Medical Chemistry	Assoc. Prof. Anita Markotić, PhD; Prof. Irena Drmić-Hofman, PhD; Assist. Prof. Vedrana Čikeš Čulić, PhD; Nikolina Režić Mužinić, MSc; Angela Mastelić MSc; Sandra Dujic-Bilušić, MSc;
Medical Microbiology and Parasitology	Assoc. prof. Marija Tonkić, MD, PhD; Assist. prof. Ivana Goić-Barišić, MD, PhD; Anita Novak, MD; Katarina Šiško Kraljević, MD, PhD; Žana Rubić, MD; Marina Radić, MD; Vanja Kaliterna, MD, PhD; Merica Carev, MD;
Neurology	prof. Ivo Lušić, MD, PhD; prof. Veselin Vrebalov-Cindro, MD, PhD; prof. Marina Titlić, MD, PhD; assist. prof. Meri Matijaca, MD, PhD; assist. prof. Gordan Džamonja, MD, PhD; assist. prof. Ivica Bilić, MD, PhD;
Neuroscience in Dental Medicine	Prof. Zoran Đogaš MD, PhD; Prof. Maja Valić, MD, PhD; Prof. Ivica Grković, MD, PhD.; Assist. Prof. Renata Pecotić, MD, PhD; Ivana Pavlinac Dodig, MD, PhD; Ivona Stipica, MD; Assist. Prof. Nenad Karanović, MD, PhD; Assist. Prof. Mladen Carev, MD, PhD; Linda Lušić, MSc;
Oncology and Tumors of Orofacial Region	prof. Eduard Vrdoljak, MD, PhD; assist. prof. Marijo Boban, MD, PhD; assist. prof. Tomislav Omrčen, MD, PhD; Branka Petrić Miše, MD, PhD;

	Tihana Boraska Jelavić, MD, PhD; Lidija Bošković, MD, MSc; Marija Ban, MD;
Ophtalmology	Prof. Milan Ivanišević, MD, PhD; Prof. Lovro Bojić, MD, PhD; Prof. Ksenija Karaman, MD, Ph.D; Assoc. Prof. Kajo Bućan, MD, PhD.; Assist. Prof. Veljko Rogošić, MD, PhD; Assist. Prof. Davor Galetović, MD, PhD; Assist. Prof. Dobrila Karlica Utrobičić, MD, PhD; Svjetlana Matijević, MD, MSc;
Oral Hygiene	Professor Dolores Biočina-Lukenda, DMD, PhD; Professor Andrija Bošnjak, DMD, PhD; Ivana Medvedec, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Marija Nosić DMD, MSc; Lidija Gavić DMD; Tea Galić DMD;
Oral Medicine 1	Professor Dolores Biočina Lukenda, DMD, PhD; Livia Cigić DMD, PhD; assist. prof. Sanja-Josipa Gruden-Pokupec, DMD, PhD;
Oral Medicine 2	Professor Dolores Biočina Lukenda, DMD, PhD; Livia Cigić DMD, PhD; assist. prof. Sanja-Josipa Gruden-Pokupec, DMD, PhD;
Oral Medicine 3	Professor Dolores Biočina Lukenda, DMD, PhD; Livia Cigić DMD, PhD; assist. prof. Sanja-Josipa Gruden-Pokupec, DMD, PhD;
Oral Surgery 1	Assist. Prof. Ivan Galić, DMD, PhD; Jozo Badrov, DMD, MSc; Ivan Brakus, DMD, PhD;
Oral Surgery 2	Assist. Prof. Ivan Galić, DMD, PhD; Jozo Badrov, DMD, MSc; Ivan Brakus, DMD, PhD;
Oral Surgery 3	Assist. Prof. Ivan Galić, DMD, PhD; Jozo Badrov, DMD, MSc; Ivan Brakus, DMD, PhD;
Organization and Economics of Dental Health Care	Professor Dolores Biočina-Lukenda, DMD, PhD; Neven Vidović, DMD, PhD;
Orofacial Genetics	Prof. Dolores Biočina-Lukenda, DMD, PhD; Assist. Prof. Josipa Sanja Gruden Pokupec, DMD, PhD; Danijela Kalibović-Govorko DMD, PhD; Lidia Gavić, DMD;
Orthodontics 1	Assistant professor Suzana Varga, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Slavica Pejda, DMD, PhD; Branimira Mikelić Vitasović, DMD, MSc; Petar Bitanga, DMD; Neven Vidović, DMD, PhD; Zorana Ivanković Buljan, DMD, PhD;
Orthodontics 2	Assistant professor Suzana Varga, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Slavica Pejda, DMD, PhD; Branimira Mikelić Vitasović, DMD, MSc; Petar Bitanga, DMD; Neven Vidović, DMD, PhD; Zorana Ivanković Buljan, DMD, PhD;
Orthodontics 3	Assistant professor Suzana Varga, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Slavica Pejda, DMD, PhD; Branimira Mikelić Vitasović, DMD, MSc; Petar Bitanga, DMD;

	Neven Vidović, DMD, PhD; Zorana Ivanković Buljan, DMD, PhD;
Otorhinolaryngology	Assist. Prof. Nikola Kolja Poljak, MD, PhD; Prof. dr. Goran Račić, MD, PhD; Assist. Prof. Zaviša Čolović, MD, PhD; Assist.Prof. Draško Cikojević, MD, PhD; Assist.Prof. Marisa Klančnik, MD, PhD; Assist.Prof.. Petar Drviš, MD, PhD;
Pathology	Prof. Valdi Pešutić Pisac, MD, PhD; Prof. Snježana Tomić, MD, PhD; Prof. Meri Glavina Durdov, MD, PhD; Prof. Ivana Kuzmić Prusac, MD, PhD; Assist. prof. Gea Forempoher, MD, PhD; Joško Bezić, MD, MSc; Ivana Mrklić, MD, PdD; Sandra Zekić Tomaš, MD, PdD; Dinka Šundov, MD, PdD; Nenad Kunac, MD;
Pathophysiology	Assoc. Prof. Tina Tičinović Kurir, MD, PhD; Prof. Dragan Ljutić MD, PhD; Andre Bratanić MD, PhD; Assist. Prof. Anteo Bradarić, MD, PhD; Joško Božić, MD;
Pediatric Dentistry 1	Prof. Dolores Biočina-Lukenda, DMD, PhD; Lidia Gavić, DMD; Tea Galić, DMD; Marica Anđić, DMD; Marijo Budimir, DMD;
Pediatric Dentistry 2	Prof. Dolores Biočina-Lukenda, DMD, PhD; Lidia Gavić, DMD; Tea Galić, DMD; Marica Anđić, DMD; Marijo Budimir, DMD;
Pediatric Dentistry 3	Prof. Dolores Biočina-Lukenda, DMD, PhD; Lidia Gavić, DMD; Tea Galić, DMD; Marica Anđić, DMD; Marijo Budimir, DMD;
Pediatrics	Prof. Vjekoslav Krželj, MD, PhD; Prof. Marijan Saraga, MD, PhD; Prof. Srđana Čulić, MD, PhD; Prof. Veselin Škrabić, MD, PhD; Prof. Julije Meštrović, MD, PhD; Prof. Vida Čulić, MD, PhD; Prof. Neven Pavlov, MD, PhD; Assist. Prof. Ivana Unić, MD, PhD; Assist. Prof. Radenka Kuzmanić Šamija, MD, PhD; Assist. Prof. Joško Markić, MD, PhD;
Periodontology 1	Professor Andrija Bošnjak, DMD, PhD; Marija Nosić, DMD; Katica Parat, DMD, MSc;
Periodontology 2	Professor Andrija Bošnjak, DMD, PhD; Marija Nosić, DMD; Katica Parat, DMD, MSc;
Periodontology 3	Professor Andrija Bošnjak, DMD, PhD; Marija Nosić, DMD; Katica Parat, DMD, MSc;
Pharmacology	Prof. Mladen Boban, MD, PhD; Prof. Darko Modun, MD, PhD;

	Assist Prof. Ivana Mudnić, MD, PhD; Grgo Gunjača, MD; Iva Jerčić, MD;
Physiology	Prof. Zoran Valić, MD, PhD; Prof. Željko Dujić, MD, PhD; Assoc. Prof. Darija Baković, MD, PhD; Assoc. Prof. Jasna Marinović, MD, PhD; Assoc. Prof. Marko Ljubković, MD, PhD; Assist. Prof. Vladimir Ivančev, MD, PhD; Assist. Prof. Ante Obad, MD, PhD;
Preventive Dental Medicine	Prof. Dolores Biočina-Lukenda, DMD, PhD; Lidia Gavić, DMD; Tea Galić, DMD;
Propedeutics of Dental Medicine	prof. Dolores Biočina-Lukenda, DMD, PhD; Assist. prof. Ivan Kovačić, DMD, PhD; Assist. prof. Marina Ognjenović Mirošević, DMD, PhD; Jozo Badrov, DMD, MSc; Katica Parat, DMD, MSc; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD; Slavica Pejda, DMD, PhD; Danijela Kalibović Govorko, DMD, PhD; Marija Nosić, DMD, MSc; Lidija Gavić, DMD, MSc; Darko Kero, DMD, PhD; Tea Galić, DMD;
Psychiatry	Prof. Goran Dodig, MD, PhD; assist. prof. Trpimir Glavina, MD, PhD; Assist. prof. Boran Uglešić, MD, PhD;
Psychological Medicine	Assoc. Prof. Dolores Britvić, MD, PhD; Assoc. Prof. Mirela Vlastelica, MD, PhD; Assist.Prof. Slavica Jurčević, MD PhD; Varja Đogaš, MD, PhD;
Public Health and Epidemiology	Associate Professor Mladen Smoljanović, PhD; Associate Professor Ozren Polašek, PhD; Assistant Professor Ivana Kolčić, PhD; Iris Jerončić, PhD;
Removable Prosthodontics 1	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;
Removable Prosthodontics 2	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;
Removable Prosthodontics 3	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;
Removable Prosthodontics 4	Assistant professor Ivan Kovačić, DMD, PhD; Assistant professor Davor Seifert, DMD, PhD; Renata Poljak-Guberina, DMD, PhD; Ratka Borić, DMD;
Restorative Dentistry 1	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD; Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;
Restorative Dentistry 2	Assist. Prof. Marina Ognjenović Mirošević, DMD, PhD;

	<p>Antonija Tadin, DMD, PhD; Ivana Medvedec Mikić, DMD, PhD; Dario Repić, DMD, PhD;</p>
Scientific Research 1	<p>Prof. Ana Marušić, MD, PhD; Prof. Matko Marušić, MD, PhD; Prof. Zoran Đogaš, MD, PhD; Assist. Prof. Ana Jerončić, PhD; Assist. Prof. Ivana Kolčić; Irena Zakarija Grković, MD, PhD; Mario Malički, MD; Tina Poklepović Peričić, DMD; Lana Bošnjak, MS; Ana Utrobičić, BA; Frane Mihanović, MS;</p>
Scientific Research 2	<p>Prof. Ana Marušić, MD, PhD; Prof. Matko Marušić, MD, PhD; Prof. Zoran Đogaš, MD, PhD; Assist. Prof. Ana Jerončić, PhD; Assist. Prof. Ivana Kolčić; Irena Zakarija Grković, MD, PhD; Mario Malički, MD; Tina Poklepović Peričić, DMD; Lana Bošnjak, MS; Ana Utrobičić, BA; Frane Mihanović, MS;</p>
Scientific Research 3	<p>Prof. Ana Marušić, MD, PhD; Prof. Matko Marušić, MD, PhD; Prof. Zoran Đogaš, MD, PhD; Assist. Prof. Ana Jerončić, PhD; Assist. Prof. Ivana Kolčić; Irena Zakarija Grković, MD, PhD; Mario Malički, MD; Tina Poklepović Peričić, DMD; Lana Bošnjak, MS; Ana Utrobičić, BA; Frane Mihanović, MS;</p>
Surgery	<p>Prof. Nikica Družijanić, MD, PhD; Prof. Zdravko Perko, MD, PhD; Prof. Nenad Ilić, MD, PhD; Prof. Vladimir Boschi, MD, PhD; Prof. Leo Grandić, MD, PhD; Assist. Prof. Ivo Jurić, MD, PhD; Assist. Prof. Zenon Pogorelić, MD, PhD; Assist. Prof. Arsen Pavić, MD, PhD; Bruno Lukšić, MD, PhD; Davor Todorić, MD, PhD; Joško Juričić, MD, PhD;</p>