

SCHOOL OF DENTAL MEDICINE UNIVERSITY IN BELGRADE



***INTEGRATED BASIC AND GRADUATE ACADEMIC
STUDIES***

***STUDY PROGRAMME
INTEGRATED STUDIES OF DENTAL
MEDICINE***

SYLLABUS

Belgrade, 2013

No.	CODE	COURSE TITLE	page
1.	ST13ANAT	Anatomy	4
2.	ST13 HIST	General and oral histology and embryology	5
3.	ST13BIOH	General and oral biochemistry	6
4.	ST13GENE	Human genetics	7
5.	ST13DEAN	Dental anatomy	8
6.	ST13INFO	Informatics in dentistry	9
7.	ST13BIOM	Biomechanics in dentistry	10
8.	ST13EKSP	Introduction to experiment and laboratory	11
9.	ST13ENG1	English 1	12
10.	ST13ORHI	Oral hygiene	13
11.	ST13FIZL	General and oral physiology	14
12.	ST13PATO	General and oral pathology	15
13.	ST13PREV	Preventive dentistry	16
14.	ST13MIKR	Microbiology and immunology	17
15.	ST13PAFI	Pathophysiology	18
16.	ST13STMA	Dental matherials	19
17.	ST13GNAT	Gnathology	20
18.	ST13BSTA	Biostatistics in dentistry	21
19.	ST13MEEK	Medical ecology	22
20.	ST13ENG2	English 2	23
21.	ST13MENA	Management in dentistry	24
22.	ST13PRAK	Basic principles of dental practice	25
23.	ST13STPP	Preclinical prostodontics	26
24.	ST13BOZP	Preclinical restorative odontology	27
25.	ST13OPHI	General surgery	28
26.	ST13INME	Internal medicine	29
27.	ST13REND	Basics of clinical radiology	30
28.	ST13FARM	Dental pharmacology	31
29.	ST13ANES	Oral surgery with basics of dental anaesthesiology	32
30.	ST13JAZD	Public health	34
31.	ST13NEUR	Neuropsychiatry	35
32.	ST13OFTA	Ophthalmology	36
33.	ST13INFE	Infectology	37
34.	ST13NAUK	Basics of scientific work and research	38
35.	ST13ORAL	Oral surgery	39
36.	ST13REOD	Restorative odontology	42
37.	ST13MOBI	Removable prosthodontics	43
38.	ST13ORME	Oral medicine	44
39.	ST13PREN	Preclinical endodontics	46
40.	ST13GERO	Gerodontology	48
41.	ST13PARI	Patients of risk	49
42.	ST13ZAJE	Community oral health care	51

43.	ST13KLGN	Clinical gnathology	52
44.	ST13DEST	Pediatric dentistry	53
45.	ST13ORTO	Orthodontics	54
46.	ST13FIKS	Fixed prosthodontics	55
47.	ST13PAR1	Basis of Periodontology	56
48.	S13ENDO	Endodontics	57
49.	ST13POVR	Dental traumatology in children	59
50.	ST13POTR	Oral helath care for disabled persons	60
51.	ST13EPID	Epidemiology of periodontal diseases	61
52.	ST13PROR	Presurgical orthodontics	62
53.	ST13KOMP	Computerized dentistry	63
54.	ST13MAKS	Maxillofacial surgery	64
55.	ST13ORLA	Otorhinolaryngology	65
56.	S13FORE	Forensic medicine and medicine law	66
57.	ST13BLO1	Group I Restaurative dentistry	67
58.	ST13BLO2	Group II Pedodontics	69
59.	ST13PAR2	Clinical periodontology	70
60.	ST13ORIM	Implantology	72
61.	ST13ZARA	Graduation diploma	73
62.	ST13REKO	Restoration of heavy damaged teeth	74
63.	ST13URGE	Urgent dental care	75
64.	ST13FIOR	Fixed orthodontics	76
65.	ST13RADI	Radiology	77
66.	ST13PPOD	Patients rights and doctors responsibilities	78

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				1	
Level of studies: second					
Course: Anatomy					
Professor in charge (Name, middle initial letter, surname): Goran B. Vujašković					
Course status (compulsory/elective): compulsory					
ECTS: 12			Year of the study: I / 1 st and 2 nd semester		
Entry requirements: (passed exams from the previous years) /			Course code: ST 13ANAT		
Objectives of the course: Learning objective of this subject is to have a student who mastered practical and theoretical knowledge of systematic and topographical anatomy of a human body.					
Outcome of the course While attending lectures and practical training, student acquires knowledge in morphology and topography of bone and soft tissue structures of upper and lower limbs. Acquires knowledge in walls and thoracic, abdominal and pelvic cavity (morphology, topography, vascularisation and innervation of organs located in there). Student acquired knowledge in morphology and topography of bone structures in head, temporomandibular joint, blood vessels and nerves of head and neck, oral cavity, pharynx, nasal cavity, larynx, sense of sight and sense of hearing as well as balance. They should gain knowledge in attachments, innervation and function of head muscles, morphology and topography of central nervous system (with emphasys on nuclei of cranial nerves, chambers and roads).					
Content of the course During the lectures and practicals student will deal with general osteology and miology, as well as the anatomy of the whole human body and organs. General focus is also given to general neurorology such as Medulla spinalis. Medula oblongata (boundaries, surface anatomy, structure), Pons, Cerebellum, Mesencephalon, Diencephalon. The students are obliged to analyse bone structure within human bones, find muscles, arteries, veins and nerves (head, neck and body) on cadaveric material. Analysis the structure of hearing, eyesight and balance.					
Recommended literature: Keith L. Mogre: Anatomy – Clinically Oriented Williams and Wilkins, Baltimore, 1992					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 90	Practicals: 90	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities	Total	60 points		Final exam	40 points
Activities at lectures		8 (30x0,3)		Written test	35
Activities at practicals		12 (30x0,4)		Practical exam	5
Colloquial exams		30 (6x5)		Oral exam	
Seminars		10 (2x5)			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				2
Level of studies: second				
Course: General and oral histology and embriology				
Professor in charge (Name, middle initial letter, surname): Gordana D Kuborović				
Course status (compulsory/elective): compulsory				
ECTS: 10			Year of the study: I, 1. and 2. semester	
Entry requirements: passed exams from the previous years			Course code:ST13HIST	
Objectives of the course: During the studies, students become familiar with cytology, histology and embryology of the tissues, organs and organ systems. The plan of teaching General and oral histology and embryology is to provide students knowledge of the structural organization of cells, tissues and organs, as well as the basic principles of their integration into larger functional units. Also, students become familiar with origin and development of cells, tissues and organs in human bodies.				
Outcome of the course At the end of the study, students are capable for identification and analyses of all tissues and organs at microscopic level. Students are capable for recognizing embryonic tissues and phases of development of certain organs, especially the head and neck. After the course the students are able to understand the normal functions of cells at the microscopic level.The knowledge from embryology makes them able to understand the normal function of cells and tissues and pathological changes at the microscopic level. Also, during the studies students become capable of understanding the nature and mechanisms which causes the developmental anomalies. The course provides better understanding of relationship between structure and function, and cellular processes in the histological context, also makes able students to examine the biological nature of the various therapeutic procedures.				
Content of the course Cytology, histological structure of tissues: histological structure of organs, histological organization of tissues and organs of the mouth, general and special embryology; embryology and tissues of the mouth. Microscopic analysis of embryonic and adult cells, tissues and organs.				
Recommended literature: 1.McKenzieJ, Klein RM. Basic concepts in cell biology and histology, McGraw-Hill, NY,USA, 2000. 2.Garant PR.Oral cells and tissues. Quintessence Publishing Co, Inc.2003. 3.Avarz J, Chiego D. Essentials of oral histology and embriology				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 60	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	60 points	Final exam		40 points
Activities at lectures	4	Written test		10
Activities at practicals	16	Integrated Practical and oral exam		30
Colloquial exams	36			
Seminars	4			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				3	
Level of studies: second					
Course: General and Oral Biochemistry					
Professor in charge (Name, middle initial letter, surname): Tatjana Todorović					
Course status (compulsory/elective): compulsory					
ECTS: 8			Year of the study: I/1 st semester		
Entry requirements (passed exams from the previous years): /			Course code: ST13BIOH		
Objectives of the course: For student to master the basic knowledge of degradation and synthesis of organic molecules, as well as the regulatory mechanisms of these processes. Students acquire knowledge about biochemistry saliva, dental tissues, dental biofilm.					
Outcome of the course After completing this course from general and oral biochemistry, students gain: -basic knowledge of the principles of metabolic processes in the human body (carbohydrates, lipids, proteins), - knowledge of the biochemical organization and processes of certain tissues and organs, and their connections interdependence.- basic knowledge of clinical and diagnostic importance of determining certain biochemical parameters in body fluids and secretions man (blood serum, saliva). - knowledge about the biochemical composition and mechanism of secretion of saliva, - knowledge about biochemical composition of dental tissues, - knowledge about biochemistry of dental biofilm, knowledge of the biochemical basis of the occurrence of dental caries and periodontal disease.					
Content of the course Survey of basic principles of biochemistry and molecular biology, emphasizing broad understanding of chemical events in living systems in terms of metabolism and structure-function relationships of biologically important molecules. Structure and function of biological molecules, especially proteins, lipids and carbohydrates. Important concepts include bioenergetics, biological catalysis, and metabolic pathways as interacting regulated systems. This course provides a thorough understanding of the basic principles of biochemical processes related to oral health. The Course content will be divided into 3 units, including: biochemistry of saliva, Biochemistry of dental tissues, biochemistry of dental biofilm.					
Recommended literature: Mark's basic medical biochemistry – a clinical approach. C. Smith, A:D: Marks, M. Lieberman. Lippincott Williams & Wilkins, London 2009.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures:	Practicals:	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		15		Written Test	
Activities at practicals		6		Practical exam	5
Colloquial exams		30		Oral exam	35
Seminars		9			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				4	
Level of studies: second					
Course: Human genetics					
Professor in charge (Name, middle initial letter, surname): Jelena M Milašin					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: I / 1 st semester		
Entry requirements (passed exams from the previous years):			Course code: ST13GENE		
Objectives of the course: Introducing students to basic principles of molecular genetics, cytogenetics and Mendelian inheritance and their importance for human health					
Outcome of the course The student has acquired basic concepts of molecular biology (types of nucleic acids, their structure and function, the processes of DNA replication, transcription and translation, genetic code and regulation of gene expression). The student understands mechanisms of mutagenesis and the effects of mutations on human health, as well as DNA repair mechanisms. The student is familiar with basic concepts of cytogenetics, understands its medical importance, knows about the main numerical and structural chromosome aberrations, can explain the mechanisms of their formation and is familiar with the most common syndromes. The student also understands the principles, rules and specificities of inheritance of monogenic and polygenic normal and pathological features, as well as the distribution of genetic characteristics at the population level (epidemiological studies). The student is able to connect genetic changes with the process of tumorigenesis.					
Content of the course The first part of the course is focused on the structure of DNA, its physico-chemical characteristics and biological function, on eukaryotic gene organization, DNA replication, transcription, translation and regulation of gene expression. It also includes basic concepts of mutagenesis (gene mutations definition, classification, chemical and physical mutagenesis and mechanisms of DNA repair). The second part is dedicated to human chromosomes and karyotype, main cytogenetic techniques for chromosome analysis, numerical and structural chromosome aberrations and principal syndromes caused by chromosomal aberrations. The third part deals with Mendelian and non-Mendelian inheritance (monogenic traits, autosomal dominant and recessive inheritance, X-linked dominant and recessive inheritance), genetic polymorphisms, linked genes, polygenic traits, multifactorial inheritance. The course also includes basic principles of population genetics and oncogenetics.					
Recommended literature: Thompson and Thompson “Genetics in Medicine”, W.B. Saunders, 2004.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		7,5		Written Test	15
Activities at practicals		15		Practical exam	
Colloquial exams		30		Oral exam	25
Seminars		7,5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				5	
Level of studies: second					
Course: Dental anatomy					
Professor in charge (Name, middle initial letter, surname): Živković S. Rade					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: I / 1 st semester		
Entry requirements (passed exams from the previous years):			Course code: ST13DEAN		
Objectives of the course: Students will learn to fully understand and describe the nomenclature of both the human primary and permanent dentitions as well as describe the structural and morphological similarities and differences of each tooth comprising the dentitions.					
Outcome of the course By applying learned principles, students will create in wax the morphological features characteristic to each tooth of the human permanent dentition. Emphasis is given to the student developing individual manual skills and learning teeth identification.					
Content of the course Lectures will provide introduction to dental anatomy related terminology, the nomenclature of the human primary and permanent dentitions, development and eruption of the teeth, morphology characteristics of the primary deciduous teeth, comparative anatomy, function and variations of permanent maxillary and mandibular incisors, canines, premolars and molars. Practical training involves laboratory hands-on application and creation in wax of the morphological characteristics of each category of tooth in the human permanent dentition					
Recommended literature: 1. Major M. Ash, Stanley J. Nelson: Wheeler’s Dental Anatomy, Physiology, and Occlusion; Saunders 9th Edition , 2010 2. Charles J. Goodacre: Atlas of the Human Dentition;PMPH-USA third edition , 2012					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		2.5		Written Test	20
Activities at practicals		12.5		Practical exam	30
Colloquial exams		30 (10+20)		Oral exam	
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				6
Level of studies: second				
Course: Informatics in dentistry				
Professor in charge (Name, middle initial letter, surname): Milicic R Biljana				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: I, 2 nd semester	
Entry requirements(passed exams from the previous years): /			Course code:ST13INFO	
Objectives of the course: Introduction to basic principles of medical informatics and electronic environment, as a part of future integrated and unique international health informatics system. Basics of statistics. Our principal goal in this course is to tech concepts in biomedical informatics-the study of biomedical information and its use in decision making and to illustrate them in the context of descriptions of representative systems that are use today.				
Outcome of the course Introduction to process of information generation, transfer, storage and us, aiming to solve various health/medical issues. Understanding of basic principles of informatics and data coding. Basic skills in contemporary literature reading and follow up using contemporary search engines.				
Content of the course Overview of basic statistical and mathematical methods in dental science and practice. Knowledge on medical information and data, and their processing and manipulation. Binary numerical system and its application in dental informatics. Summary of basic of logics and its application. Medical decision making by means of informatics. Biomedical informatics is more than the study of computers in medicine and we have organized the course to emphasize that point. In the field that is changing as rapidly as computer science is, it difficult ever to feel that you have knowledge that is completely current. However, the conceptual basis for study changes much more slowly than do the detailed technological issues. Thus, the lessons they learn from this course will provide students with a foundation on which they can continue to build in the years ahead. Obligatory student work within Practical Student Work: The use of program packages for information elaboration. Student training in papers writing and presentations. Medical data base screening and research. Basis of computer aided learning.				
Recommended literature: 1. Shortliffe EH, Cimino JJ (2008). Biomedical Informatics. Springer Science+Business Media, New York, USA 2. http://davidmlane.com/hyperstat/ (HyperStat Online Textbook © 1993-2003 David M. Lane)				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities		Points 60	Final exam	Points 40
Activities at lectures		10	Written test	40
Activities at practicals		20	Practical exam	
Colloquial exams		20	Oral exam	
Seminars		10		
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				7	
Level of studies: second					
Course: Biomechanics in Dentistry					
Professor in charge (Name, middle initial letter, surname): Đorđe I. Stratimirović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: I / 2 nd semester		
Entry requirements (passed exams from the previous years): /			Course code: ST13BIOM		
Objectives of the course: Introduction and application of the principles of biomechanics (statics) and establish a basis for understanding the dental oriented matter.					
Outcome of the course Student knows how: to decompose force (torque) into components, calculate the value of the components, find the sum of forces and sum of torques, calculate the work of force acting on body, determine the axis of rotation and torque strength, determines the forces that will balance the rigid body, present head, arms, legs, thorax, lower jaw by lever model.					
Content of the course During lectures and practical students will deal addition and subtraction of vectors (force and torques) vector components (components of force and torque), the scalar product of vectors (mechanical work), vector product of vectors (torque). Also, basic concepts of static (material point, rigid body, sliding vector, momentum, moment arm, the position vector) will be evaluated. Principles of biomechanics will be evaluated throughout different parts of the body.					
Recommended literature: Nanda R. Biomechanics and esthetic strategies in clinical orthodontics McLaughlin RP, Benett JC, Trevisi HJ: Systemized orthodontic treatment mechanics					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		5		Written Test	40
Activities at practicals		15		Practical exam	
Colloquial exams		25		Oral exam	
Seminars					
Other		15			

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				8	
Level of studies: second					
Course: Introduction to experiment and laboratory					
Professor in charge (Name, middle initial letter, surname): Đorđe I. Stratimirović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: I / 2 nd semester		
Entry requirements (passed exams from the previous years):			Course code: ST13EKSP		
Objectives of the course: Making students scientifically literate. Getting them to know the basics of working in the laboratory and conducting scientific experiments.					
Outcome of the course Student expanded knowledge of the general principles of experimental work, he became familiar with the SI system of units and with the concept of measurement uncertainty; learned to correctly display the results of direct and indirect measurements; individual measuring in the laboratory increased their self-confidence and manual skills; experienced various measuring instruments, learned to read values from different scales, mastered certain skills in measuring, learned to distinguish the accuracy of precision, became aware of the importance of evaluating the confidence interval of the results, learned to estimate the measurement uncertainty for instruments with a linear scale; mastered graphical representation of linear dependences.					
Content of the course During the lectures and practicals students will focus on basics of the phenomenon of viscosity, equilibrium of forces (resultant of weight, buoyancy and viscous force), sedimentation and about instruments for measuring length of different accuracy (ordinary and vernier rulers), error of diameter measurement. Measuring time interval.					
Recommended literature:					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures:	Practicals:	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		5		Written Test	40
Activities at practicals		30		Practical exam	
Colloquial exams		25		Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				9	
Level of studies: second					
Course: English language I					
Professor in charge (Name, middle initial letter, surname): Gordana B. Todorović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: I/ 2 nd semestre		
Entry requirements (passed exams from the previous years):/			Course code: ST13ENG1		
Objectives of the course: Enabling students to master English language in the field of medicine					
Outcome of the course: To have a student who acquired knowledge in English for specific purposes, in other words language in the field of Medicine, understanding word structure that make basics of medical terms, understanding plural of nouns that are of Latin and Greek origin, as well as terms in Anatomy (human body, systems of organs). Most common diseases.					
Content of the course					
Lectures of 2nd semestre					
English as a world language. English for specific purposes. Basic word structure. The human body. Organisation of the human body. Medical education - general practitioners and specialists. Diseases and symptoms. Skeletal system. Cardiovascular system. Respiratory system. Digestive system. Endocrine system. Skin and sense organs. Nervous system. Lifestyle and prevention. Medical ethics					
Recommended literature:					
Texts of reference are used during lectures, which students receive as handouts.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures:	Practicals:	Other modes of teaching process:	Study research work:		
30	15	colloquial exams, seminars			
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		7,5 (15x0,5)		Written Test	40
Activities at practicals		15 (15x1)		Practical exam	-
Colloquial exams		Written colloquial exam 20 Oral colloquial exam 10		Oral exam	-
Seminars		7,5			
Other		-			

Note: Practicals follow method units of lectures by determination of following language skills: Understanding, reading, speaking and writing. Part of the time will be devoted to student essays and reviews of general grammar of English

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				10	
Level of studies: second					
Course: Oral hygiene					
Professor in charge (Name, middle initial letter, surname): Olivera M. Jovičić					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: I / 2 nd semester		
Entry requirements (passed exams from the previous years):			Course code: ST13ORHI		
Objectives of the course: To introduce students to the importance of oral hygiene in maintaining oral health and with different techniques and tools for oral hygiene.					
Outcome of the course to understand the importance, role and opportunities in maintaining oral hygiene and oral health in general, to master the basic conditions for performing oral hygiene (full possession of equipment, proper technique, regularity, frequency and duration of brushing your teeth) that uses basic and auxiliary products to perform oral hygiene, to properly perform the different techniques of tooth brushing (Kliyn, Bass, Charters, Fones, etc.) to diagnose the presence of deposits and plaque on the teeth and apply different methods for removing them, to use properly floss and interdental device with a water jet to clean the proximal surfaces of the teeth and interdental spaces, to understand the importance and methods of maintaining oral hygiene for patients with special needs, to take a medical history from patients about oral hygiene (habits of patients on oral hygiene, if the patient has complete accessories, is regularly and properly brush their teeth long enough), to explain to the patient the purpose and importance of regular oral hygiene performance and show how it is done practically (demonstration of tooth brushing techniques), to recommend appropriate patient toothpaste and explain the effect of toothpaste with fluoride, to prevent tooth decay and to motivate children, parents and patients to maintain regular and proper oral hygiene.					
Content of the course Theoretical studies: On hours of theoretical teaching, students are introduced to the basic conditions for the maintenance of oral hygiene, the type and nature of the deposits on the teeth, with tooth brushing techniques, basic and auxiliary products, the training methodology and the importance of teeth brushing, oral hygiene for children with disabilities. Practical studies: For practical training, students are introduced to the workplace and basic dental instruments, practice the use of handpiece and methods for detection and removal of sediments with different techniques.					
Recommended literature: 1.Murray J.J, Nunn H N, Steele G J.:Prevention of Oral Disease. Oxford University Press Inc., New York, 2003. 2. Norman O. Harris, Franklin Garcia-Godoy. Primary Preventive Dentistry, Sixth Edition, Upper Saddle River, New Jersey, 2004.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	50
Activities at practicals		15		Practical exam	
Colloquial exams		20		Oral exam	
Seminars		10			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				11	
Level of studies: second					
Course: General and Oral Physiology					
Professor in charge (Name, middle initial letter, surname): Elena S. Krsljak					
Course status (compulsory/elective): compulsory					
ECTS: 9			Year of the study: II / 3rd and 4 th semester		
Entry requirements (passed exams from the previous years): /			Course code: ST13FIZL		
Objectives of the course: Familiarising with knowledge of the molecular, cellular, sistemic physiology, oral physiology and integrative human physiology with special emphasis on the mechanisms, regulation and feedback-control coupling, which oversee and regulate life processes and functional balance-homeostasis.					
Outcome of the course Competence in understanding of physiological processes, interrelations of physiological functions of the organism as a whole and the orofacial system					
Content of the course Indroductio <u>n</u> to Physiology, General Physiology.Membrane Physiology, Nerve, Muscle.The Heart.The Circulation.The Body Fluids and Kidneys.Blood cells, Immunity and Blood Clotting.Respiration.The nervous System. General Principles of Sensor Physiology.Motor and Integrative Neurophysiology.Gastrointestinal Physiology.Endocrinology.Oral Physiology.					
Recommended literature: Alberts B, Johanson A, Lewis J, Raff M, Roberts K, Walter P. Molecular biology of the cell,.Garland Science, New York, 2006. McKenzie J, Klein RM. Basic conepts in cell biology and histology, Mcgraw-Hill, New York, 2000. Concepts in biochemistry / Rodney Boyer. - 3rd ed. - [s.l.] : John Wiley (Asia), 2006. - xvi, 666, G11, A31, I12 str. : ilustr. ; 28 cm. - (Wiley Asia Student Edition)					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 105	Practicals: 45	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		5		Written Test	15
Activities at practicals		10		Practical exam	
Colloquial exams		40		Oral exam	25
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				12
Level of studies: second				
Course: General and oral pathology				
Professor in charge (Name, middle initial letter, surname): Zvezdana B Tepavcevic				
Course status (compulsory/elective): compulsory				
ECTS: 9			Year of the study: II, 4 th semester	
Entry requirements(passed exams from the previous years):/			Course code:ST13PATO	
Objectives of the course: To provide the students with knowledge on the morphological changes, or structural damages of the cells, tissues and organs, and the skill to link them with the causes and mechanisms of their development and their consequences, which is a significant precondition for understanding the essence of the pathological processes, thus of human diseases.				
Outcome of the course Is to make students understand and implement the link with integral parts of clinical subjects, the essence of pathological processes that lie at the foundation of human diseases, first of all, oral cavity organs, which will make them capable of following all clinical subjects.				
Content of the course During the lectures and practical trainings students will gain knowledge of morphological changes, ie cell, tissue and organ structure damages, and skills to link it with the causes and mechanisms with their development and consequences. They will be introduced into the bases of pathological processes, how morphological changes occur, what are cell, tissue and organ damages like. Within the subject, students will get to know about the changes of the overall body, in particular, those of the oral cavity. Also, this subject teaches students how to link pathological and clinical changes.				
Recommended literature: 1. Cumar, Cortran, Robbins – Pathologic basis of diseases, Saunders USA 2. J.V.Soames and J.C.Southam – Oral pathology, Oxford Medical University				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 60	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points	Final exam		points
Activities at lectures	5	Written test		
Activities at practicals	7	Practical exam		10
Colloquial exams	40	Oral exam		30
Seminars	8			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				13	
Level of studies: second					
Course: Preventive dentistry					
Professor in charge (Name, middle initial letter, surname): Momir R. Carević					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: II / 2 nd semester		
Entry requirements (passed exams from the previous years):			Course code: ST13PREV		
Objectives of the course: At the end of the course undergraduate student obtain and understand basic principles of preventive dentistry and on the basis of current scientific knowledge concerning etiology of oral diseases, ensure, recommend and introduce the most effective measures and methods to prevent their occurrence.					
Outcome of the course Undergraduate student become familiar with complex interactions between oral and general health, and as well with numerous risk factors (bad living and eating habits, use of drugs and alcohol, tobacco smoking and etc.) that are common to both. It is also of great importance to understand basic concept of etiopathogenesis of most common oral diseases (caries, periodontal diseases, oral carcinoma, orthodontic malformations, oral trauma and etc.), implement current methods for diagnosing and neutralizing existing risk factors, and to be able to use most effective preventive and prophylactic methods in order to prevent occurrence of most common oral diseases.					
Content of the course <i>Theoretical studies:</i> Introduction in to preventive dentistry (medical, social and economical aspects), protective mechanisms of oral environment (saliva, microorganisms, hard dental tissues), etiopathogenesis of common oral diseases (caries, periodontal diseases, malocclusions, dental erosion, oral carcinoma, oral trauma), oral diseases risk assessments (nutrition, oral hygiene, saliva quality, quantity, buffering capacity, salivary micro organisms), preventive and prophylactic methods (proper nutritional and oral hygiene advices, use of fluorides, fissure sealing, preventive restoration, mouthguards, preventive and interceptive orthodontics), and prevention of oral diseases in children with special needs. <i>Practical studies:</i> Exercises, other forms of studies, study related research. Learning and practicing skills in diagnosing risk factors for most common oral diseases (caries risk tests, tests for assessment of periodontal disease and oral carcinoma), risk factors neutralisation by implementing approved preventive and prophylactic measures (nutrition concealing, proper oral hygiene education and motivation, use of fluorides and fluorides supplements, professional plaque and calculus removal, fissure sealing, preventive restoration.) and parcticing training and promoting oral health education with patients with special needs.					
Recommended literature: Murray J.J, Nunn J.H, Steele J.G: Prevention of oral diseases. Oxford University Press. Oxford, New York, 2003,2004,2007					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 45	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	30
Activities at practicals		15		Practical exam	
Colloquial exams		20		Oral exam	20
Seminars		10			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				14
Level of studies: second				
Course: Microbiology and Immunology				
Professor in charge (Name, middle initial letter, surname): Dusan B Pavlica				
Course status (compulsory/elective): compulsory				
ECTS: 6		Year of the study: II/3 rd semester		
Entry requirements(passed exams from the previous years): /		Course code:ST13MIKR		
Objectives of the course: To familiarize students with the most common pathogens, their mechanisms of activity, as well as their identification using standard and contemporary methods of laboratory diagnostics.				
Outcome of the course After finishing the course, students gain basic knowledge in medical microbiology and immunology. They should understand the principles of microscopy, cultural and serological diagnostics of different human pathogens. Also, the students should get acquainted with the oral biotope and the microbiological mechanisms of developing diseases of dental tissue and periodotium.				
Content of the course Basics of bacterial cell structure, virulence factors, mechanisms of development of infectious diseases, prevention of infections (sterilization and disinfection), antibiotics and their mechanism of action. Structure of the immune system, innate and acquired immunity (T and B lymphocytes), activity of complement system and cytokines. Autoimmune diseases and their mechanisms, hypersensitivity reactions, vaccines and immune serums Most common human bacterial pathogens (<i>Staphylococcus</i> , <i>Neisseriae</i> , <i>Streptococcus</i> , <i>Streptococcus pneumoniae</i> , <i>Enterococcus</i> , <i>Bordatella</i> , <i>Bacillus anthracis</i> , <i>Corynebacterium diphtheriae</i> , <i>Haemophilus influenzae</i> , <i>Legionella</i> , <i>Clostridium</i> (<i>Cl. tetani</i> , <i>Cl botulinum</i> , <i>Cl gas gangrenae</i>), <i>Listeria</i> , <i>Brucella</i> , <i>Mycobacterium</i> , <i>Enterobacteriaceae</i> , <i>Vibrio</i> , <i>Helicobacter</i> , <i>Campylobacter</i> , <i>Traponema pallidum</i> , <i>Borellia burgdorferi</i> , <i>R. prowazeki</i> , <i>Chlamidiae</i>) Most common human viral pathogens (HSV1, HSV2, VZV, CMV, EBV, HHV6, HHV7, HHV8, Orthomyxoviridae, Rhabdoviridae, Poxviridae, Togaviridae, Paramyxoviridae, hepatotropic viruses, HIV, prions) Basic characteristics of the oral biotope, Most important members of the oral flora (oral streptococci, Lactobacillus, Actinomyces, Porphyromonas, Provatella, Fusobacterium, Oralnespirohete, . A. actinomycetemcomitans, filamentous bacteria, oral protosoae and most important fungi). Microbiological aspects of the dental plaque structure, etiopathogenesis of caries and periodontitis				
Recommended literature: 1.Samaranayake L.P. Essential Microbiology for Dentistry, Churchill Livingstone, 2002 2.Marsh P, Martin M.V. Oral Microbiology, Wright, 2001 3.Abbas A, et al. Basic Immunology, Saunders 2006-2007				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 60	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 60	Final exam		points 40
Activities at lectures	10	Written test		35
Activities at practicals	15	Practical exam		5
Colloquial exams	30	Oral exam		/
Seminars	5			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				15	
Level of studies: second					
Course: Pathophysiology					
Professor in charge (Name, middle initial letter, surname): Danijela B Vučević					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: II / 4 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13PAFI		
Objectives of the course: Identification and study of causes of diseases and their effects on human body (etiology), as well as elucidation of mechanisms refer to appearance and development of dysfunctions (pathogenesis). Pathophysiology deals with the disordered or altered functions, that are common for numerous diseases (general pathophysiology). It also put into attention specific disorders of individual organ systems (special pathophysiology). Namely, emphasis of this subject is reflected in clarification of cause and effect relations, that are responsible for initiation and propagation of pathophysiologic processes.					
Outcome of the course Students acquire knowledge about etiopathogenesis of diseases and principles concerning determination of different organ and system disorders, due to lectures and laboratory training. The study of principles and rules, that are essential for pathogenesis of disease, is recognized as a strongpoint of health care and therapeutic intervention. Based on facts about organ and system dysfunction, clinical disciplines at a School of dental medicine enable development and improvement of methods and procedures of key importance for appropriate diagnosis and therapeutic approach to patients.					
Content of the course During the lecturers and practicals students will be introduced basic principles of etiopathogenesis of different diseases with special attention to oral diseases and oral manifestations of them.					
Recommended literature:					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 60	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		6		Written Test	35
Activities at practicals		19		Practical exam	5
Colloquial exams		30		Oral exam	
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				16	
Level of studies: second					
Course: Dental materials					
Professor in charge (Name, middle initial letter, surname): Kosovka B. Obradović - Đuričić					
Course status (compulsory/elective): compulsory					
ECTS: 4			Year of the study: II / 3 rd semester		
Entry requirements (passed exams from the previous years):			Course code: ST13STMA		
The objective of the course: Introducing students to characteristics of dental materials and basic principles of their use.					
Outcome of the course Students are trained in recognizing and making proper selection of the materials that are used in dentistry today. The special attention is focused in recognition of the biocompatibility of dental materials, as well as the material characteristics concerning working time, setting time, consistency, mixing time and the instructions for proper use.					
Content of the course Focusing on the manipulation of dental materials most commonly used in the dental office, theroretical lecturers discusses the physical, chemical, and manipulative properties of modern materials, allowing students to obtain basic knowledge of dental materilas. The course also includes concerns about occupational safety, disposal of waste materials, and infectious diseases as they influence the choice and handling of dental materials. It examines such materials and procedures as castable ceramics, computer-aided design and manufacturing of ceramic restorations, implant materials, dental cements and more!					
Recommended literature: Craig R.G., Powers J.M., Wataha J.C. Dental materials. Properties and manipulation. St. Louis: Mosby Comp., 2000. O’Brien W.J. Dental materials and their selection. 2nd Ed. Chicago: Quintessence Publ. Co., Inc., 1997.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals:	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		15		Written Test	50
Activities at practicals				Practical exam	
Colloquial exams		10+10+15		Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				17	
Level of studies: second					
Course: Gnathology					
Professor in charge (Name, middle initial letter, surname): Dodić M. Slobodan					
Course status (compulsory/elective): elective					
ECTS: 5			Year of the study: II / 4 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13GNAT		
Objectives of the course: For student to learn fundamentals of occlusion, anatomy and function of temporomandibular joint, reproducibility of mandibular movements and positions, articulators, number and location of occlusal contacts in the intercuspal position and malocclusion.					
Outcome of the course By successful completion of this study program, students will be able to determine and record centric relation and other relevant mandibular positions, transfer upper and lower dentition casts to articulator, manipulate and adjust articulators and analyse teeth contact patterns.					
Content of the course Lectures will provide introduction to basic principles of occlusion and related terminology with definitions, anatomy and function of the neuromuscular system and its control of mandibular movements, characteristics of functionally optimal occlusion and key factors for occlusal stability. Special attention will be directed to the important topic: occlusal concepts bilaterally balanced occlusion vs. mutually protected occlusion with anterior, canine guidance or group function. Understanding normal occlusal relationships and masticatory function is essential for successful treatment of dysfunction and occlusal therapy. Practical training involves transferring the casts of the maxillary teeth with face-bow and mandibular (lower) teeth using the record of centric relation, fixation in articulator to reproduce recorded position of the mandible in relation to the maxilla and upgrading skills for working with average value and semi-adjustable articulators. Also learning how to analyse distribution of occlusal contacts in centric occlusion and during mandibular excursions and exercise Peter K. Thomas ‘wax added’ technique for occlusal morphology.					
Recommended literature: 1. J.P.Okeson: Management of Temporomandibular Disorders and Occlusion, 6th edition, Mosby, 2008 2. P.E. Dawson: Functional Occlusion: from TMJ to Smile Design, Mosby 2007					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory Activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	20
Activities at practicals		10		Practical exam	30
Colloquial exams		30		Oral exam	
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				18
Level of studies: second				
Course: Biostatistics in dentistry				
Professor in charge (Name, middle initial letter, surname): Milicic R Biljana				
Course status (compulsory/elective):elective				
ECTS: 6		Year of the study: II/3 rd semester		
Entry requirements(passed exams from the previous years): /		Course code:ST13BSTA		
Objectives of the course: Introduction to statistical way of thinking and results interpretation. The role and limitations of biostatistics in everyday dental practice and literature/publications review and follow up, necessary in contemporary dental practice				
Outcome of the course Acquired knowledge enables understanding of statistics, making possible for a student to critically analyze and read dental literature and scientific papers of interest. The application of basic statistical tools in everyday dental practice problem solving. The course provide an integrated overview of the most useful analytic techniques that students and practitioners are bound to encounter in their future studies, research activities and most importantly, as consumers of evidence based dentistry.				
Content of the course Overview of basic principles of statistics and biostatistics. The use of statistical terms, tools and concepts within various statistical packages. Possibilities of various hypothesis testing. Statistical modeling application in dental research and its application in everyday practice. Summary of results interpretation and conclusions delivery by statistical means. Critical result assessment and its application in everyday practice. Overview of proof hierarchy and its impact in evidence based dentistry. The goal of Biostatistics in dentistry is to give the students a conceptual understanding of the basic statistical procedures used in healthy science. Emphasis is given to the rationales, applications, and interpretations of the most commonly used statistical techniques rather than on their mathematical, computational, and theoretical aspects.				
Obligatory student work within Practical Student Work -Database establishment in SPSS statistical package. -Practice and experience gaining in realisation of basic and simple descriptions, assessments, and hypothesis testing by the use od statistical package. -Results interpretationin everyday dental practice problem solving.				
Recommended literature: 1. Kim JS, Dailey R (2007). Biostatistics for Oral Healthcare. Blackwell Pub Professional, Iowa State University Press, Iowa USA. 2. http://davidmlane.com/hyperstat/ (HyperStat Online Textbook © 1993-2003 David M. Lane)				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 60	Final exam		points 40
Activities at lectures	10	Written test		30
Activities at practicals	20	Practical exam		10
Colloquial exams	2	Oral exam		
Seminars	10			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				19
Level of studies: second				
Course: Medical ecology				
Professor in charge (Name, middle initial letter, surname): Ivanka S Gajic				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: II/3rd semester	
Entry requirements(passed exams from the previous years):/			Course code:ST13MEEK	
Objectives of the course: To enable students to get basic knowledge related to medical ecology and the influence of environment on health and oral health of people.				
Outcome of the course Students should be familiar with positive and negative influence of environmental factors on general and oral health.				
Content of the course The course is comprised of introduction to medical ecology, basic knowledge concerning ecosystem, ecosphere and elements of ecosphere – lithosphere, atmosphere, hydrosphere and technosphere, and plants and animals as well. There are many natural ecological factors and factors changed or created by human activities influencing human health and oral health in a positive or negative way. Those physical, chemical and biological factors should be recognized and study by students.				
Recommended literature: Oxford Textbook of Public Health (5 ed.) .Edited by Roger Detels, Robert Beaglehole, Mary Ann Lansang, Martin Gulliford, Oxford University Press, 2009				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 60	Final exam		points 40
Activities at lectures	15	Written test		40
Activities at practicals	15	Practical exam		/
Colloquial exams	20	Oral exam		/
Seminars	10			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				20	
Level of studies: second					
Course: English language II					
Professor in charge (Name, middle initial letter, surname): Gordana B. Todorović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: II/3 rd semsetre		
Entry requirements (passed exams from the previous years):-			Course code: ST13ENG2		
Objectives of the course: Acquiring knowledge of professional English in dental medicine, which is going to enable students to use foreign literature, professional communication, and further development.					
Outcome of the course: Acquiring knowledge in basic expressions and words (professional and colloquial) that are used in dental medicine, acquiring knowledge of terms in specialties and specialists, names of equipment and parts in dental practice, structure and morphology od teeth and dentition, as well as most common oral diseases.					
Content of the course					
Lectures					
Introduction to the dental profession (education and organised dentistry). General dentistry and specialties. The dental team - the dentist and auxiliary personnel. Diet and oral health. Preventive dentistry. Fluoride - a decay fighter. The dental office. Infection control in the dental office. Health and illness. Preparation for patient care - taking a history. Clinical examination. Tooth structure and morphology. Dental charting. Most common oral/dental diseases. Restorative dentistry.					
Recommended literature:					
Texts of reference are used during lectures, which students receive as handouts.					
Dofka CM. Dental Terminology . Albany NY: Delmar Thompson Learning, 2000. (previously selected chapters only)					
Fairpo JEH, Fairpo CG. Heinemann Modern Dictionary for Dental Students . London: William Heinemann Medical Books Ltd					
Ilic D. English-Serbian Dental Dictionary . Belgrade: School of Dental medicine, 2007					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		7,5 (15x0,5)		Written Test	40
Activities at practicals		15 (15x1)		Practical exam	-
Colloquial exams		Written colloquium exam 20 Oral colloquium exam10		Oral exam	-
Seminars		7,5			
Other		-			

Note: Practicals follow method units of lectures by determination of following language skills: Understanding, reading, speaking and writing. Part of the time will be devoted to student essays and reviews of general grammar of English

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				21
Level of studies: second				
Course: Management in dentistry				
Professor in charge (Name, middle initial letter, surname): Svetlana B Jovanovic				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: II/4 th semester	
Entry requirements(passed exams from the previous years):			Course code: ST13MENA	
Objectives of the course: To introduce students to health management and specific management, organization, quality control and standardization of Health Services / facilities.				
Outcome of the course Students should be familiar with health policy and health care system and the general principles of management, and health management and to understand the concept of a successful, ie. effective managers.The student has mastered the basic skills of communication, organization, leadership and management programs, dental care of different population groups, and making timely decisions based on its analysis of the program.				
Content of the course The curriculum includes methodological units that introduce students to the functions, principles and levels of health management. Enabling for a successful collaboration with others / teamwork, developing abilities, motivation and decision-making based on analysis and evaluation of the exercise of individual goals. Indicates the development of communication skills necessary for effective management and mastering skills, leadership and human resource management.				
Recommended literature: Young M: Managing a dental practice. Radcliffe Medical PR; 1 edition (2010)				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities		Points 60	Final exam	points
Activities at lectures		5	Written test	40
Activities at practicals		15	Practical exam	
Colloquial exams		30	Oral exam	
Seminars		10		
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				22	
Level of studies: second					
Course: Basic principles of dental practice					
Professor in charge (Name, middle initial letter, surname): Ivica Z. Stancic					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: II / 4 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13PRAK		
Objectives of the course: Introducing students to the rules of a professional communication with the patient and members of the professional team, as well as the basic principles required for access to the patient in the dental office.					
Outcome of the course After passing the exam, student is qualified for a professional and ethical approach to patients of various social and medical categories					
Content of the course During the lecturers and practical students will be introduced basic princpiles of professional communications in dental practise between patientws and health care professionals. Also, special atention will be focused on special care patients, such as elderly and disabled.					
Recommended literature: Lloyd M and Bor R: Communication Skills for Medicine. New York, Churchil Livingston, 1996					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory Activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	50
Activities at practicals		20		Practical exam	
Colloquial exams		20		Oral exam	
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				23	
Level of studies: second					
Course: Preclinical prosthodontics					
Professor in charge (Name, middle initial letter, surname): Aleksandar B. Todorović					
Course status (compulsory/elective): elective					
ECTS: 7			Year of the study: III / 5 and 6 semesters		
Entry requirements (passed exams from the previous years):			Course code: ST13STPP		
Objectives of the course: Obtaining theoretical and practical knowledge about the technical and technology procedures in manufacturing of the complete, partial acrylic, removable partial denture and different types of fixed restorations.					
Outcome of the course After completing the course the student is familiar with laboratory procedures employed in manufacturing mobile and fixed restorations. As for mobile prosthetic restorations the student is capable to make and pour the preliminary impression, create an individual tray and wax rims. The student is also capable that on his/her own perform the teeth set up, analyse the diagnostic cast in the suveyor and design the removable partial denture, and waxing for fixed restorations. Flasking and deflasking procedures and all other laboratory procedures are well introduced and explained					
Content of the course The lectures offers dental students an foundation to understand the basic principles of mobile and fixed prosthodontics, with basic science, followed by practical step-by-step laboratory applications. Practicals are organized as systematic an follow up laboratory procedures in manufacturing complete denture, removable partial denture and different types of fixed restorations.					
Recommended literature: Morrow RM, Rudd KD, Rhoads JE. Dental laboratory procedures. Complete dentures. Volume one. Mosby, 1986. Rudd KD, Morrow RM, Rhoads JE. Dental laboratory procedures. Removable partial dentures. Volume three. Mosby, 1986					
Total number of classes in active teaching:				Professional practice/ independent work: 45	
Lectures: 30	Practicals: 90	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory Activities		Total 50 points		Final exam 50 points	
Activities at lectures		3		Written Test	20
Activities at practicals		14		Practical exam	30
Colloquial exams		30		Oral exam	
Seminars		3			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				24	
Level of studies: second					
Course: Preclinical restorative odontology					
Professor in charge (Name, middle initial letter, surname): Mirjana G.Vujašković					
Course status (compulsory/elective): compulsory					
ECTS: 7			Year of the study: III/5 th and 6 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13BOZP		
Objectives of the course: To teach and train a student to prepare all type cavities and restore temporary and finally fillings					
Outcome of the course Theoretical knowledge: definition and diagnosis, location and classification of caries lesions. - Knowledge and handling with equipment, devices, hand and rotating instruments. -Theoretical and practical knowledge : Black's steps in cavity preparations class I,II,MOD,V and principles of adhesive cavity preparations class I,II,III,IV,V. - Theoretical and practical knowledge about application different dental materials: temporary fillings,base and lining cements, glass ionomers,direct restorations (amalgam,composite and glass ionomers). -Theoretical and practical knowledge : finishing and polishing of various direct restorations.					
Content of the course Definition,diagnosis and classification of caries lesions; teeth naming and numbering system. Dental unit,hand and rotating instruments;Principal of preparation all types of cavities, Bleck's and adhesive form. Properties and application of different dental materials: temporary fillings,base and lining cements,glass ionomers, amalgam,adhesive system , composite.Technical procedure of matrix application (plastic and metal bands). Final finishing and polishing of various direct restorations. Organization and direct training is conducted on plastic teeth ;preparations and direct restorations as introduction for clinical practice.					
Recommended literature: Fundamentals of Operative Dentistry: Summitt J.B ae al.,3 rd ed.Quintenssence Publishing Co Inc2006.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work:	45	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		6		Written Test	25
Activities at practicals		30		Practical exam	25
Colloquial exams		12		Oral exam	
Seminars		2			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				25
Level of studies: second				
Course: General surgery				
Professor in charge (Name, middle initial letter, surname): Branislav S Donfrid				
Course status (compulsory/elective): compulsory				
ECTS: 6			Year of the study: III / 6th semester	
Entry requirements(passed exams from the previous years): /			Course code: ST13OPHI	
Objectives of the course: Introduction of basic surgical principles to the students in order to facilitate mastering dental surgical subjects				
Outcome of the course Mastering of the medical history taking and physical examination of surgical patients; understandig of common diagnostic procedures (laboratory analysis, ultrasound, X ray, computed tomography, magnetic resonance imaging); understanding of endoscopic procedures; basic knowledge of asepsis and antisepsis (hands, operating field and operating room disinfection, methods of sterilization and sterility control); First aid in case of emergencies, cardiopulmonary resuscitation; use of basic surgical instruments and materials; surgical dressing, bandages and immobilisation; injections and infusions; blood transfusion; surgical wound care, wound healing and removal of stitches; incision and drainage of abscess and phlegmona; basic knowledge of surgical procedures; basics of tissue and organ transplantation; recognition of basic skin, head and neck, chest, abdominal, limbs and urogenital surgical diseases; basic principles of treatment of malignant diseases				
Content of the course During the course the folowing lectures will be held: Medical history and physical examination of surgical patients; Diagnostic methods ((laboratory analysis, ultrasound, X ray, computed tomography, magnetic resonance imaging, endoscopy); Asepsis and antisepsis. Surgical infections, Prophylaxis and therapy of infections; Shock - Prevention and Treatment. Cardiopulmonary resuscitation and monitoring of vital functions; Blood transfusion. Bleeding and haemostasis; The principles of surgical operations . Basic surgical procedures. Postoperative complications; Organs and soft tissue injuries; Skin diseases. Breast cancer. Abdominal wall hernias. Endocrine glands disorders. Transplantation of tissues and organs; Peripheral vascular disease. Surgical diseases of the heart; Digestive tract disorders (esophagus, stomach, small and large intestine, anal region); Diseases and injuries of solid abdominal organs (liver and bile ducts, pancreas, spleen); Urological and gynecological diseases. Principles of hemodialysis and peritoneal dialysis); The basic principles of oncology. Minimally invasive surgery. Practicals will include conducting of various diagnostic and surgical procedures. Mandatory student program in the practicals: artificial respiration, external cardiac massage, injections, wound care and removal of stitches, bandages and immobilization				
Recommended literature: Sabiston Textbook of Surgery,19 th eds. Townsend CM et al. Saunders, USA,2012.or Textbook of surgery, 3 rd eds. Tjandra et al(editors). Wiley/Blackwell, 2006				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 45	Practicals: 45	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 60	Final exam		points 40
Activities at lectures	15	Written test		30
Activities at practicals	15	Practical exam		
Colloquial exams	30	Oral exam		10
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				26
Level of studies: second				
Course: Internal medicine				
Professor in charge (Name, middle initial letter, surname): Njegica. Z. Jojic				
Course status (compulsory/elective): compulsory				
ECTS: 6			Year of the study: III / 5. semester	
Entry requirements(passed exams from the previous years):			Course code:ST13INME	
Objectives of the course: Introduction of students with general principles of internal medicine				
Outcome of the course Student should be able to take the history of disease, examine the patients ; students will have the basic knowledge of general principles of diagnosis and therapy of the internal diseases, with special aspects to the influence on dental practice				
Content of the course During the lectures and practicals students will be thought of general principles of diagnosis and therapy in the fields of physical examination, pulmonology, cardiology, gastroenterology, endocrinology and metabolic diseases, haemathology, immunology, allergology, reumathology, renal diseases and management of emergencies in internal medicine.				
Recommended literature: Harrison's; Manual of Internal Medicine. Editors: Eugene Braunvlad. Publisher McGRaw-Hill 15-17 th eds.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 45	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 60	Final exam		points 40
Activities at lectures	10	Written test		5
Activities at practicals	25	Practical exam		5
Colloquial exams	21	Oral exam		30
Seminars	4			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				27	
Level of studies: second					
Course: Basics of clinical radiology					
Professor in charge (Name, middle initial letter, surname): Zoran B. Rakočević					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: III/ 5 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13REND		
Objectives of the course: The aim of the Basic Clinical Radiology course is to introduce basic principles related to the x-ray image aquisition, its geometry, x-ray equipment used for the diagnosis of diseases of the maxillofacial region (dental radiography, orthopan tomography, teleradiography, computerized tomography, ultrasonography), the radiological safety during radiological examination by these techniques, and the principles of obtaining the final plain radiographs. During the course students will also learn the techniques of the radiological examination that can be used for the diagnosis of the various pathological conditions within the maxillofacial region. The aim is also to teach students to analyse radiograms obtained by these techniques. Students learn to choose the most appropriate intraoral or panoramic radiological examination in a certain pathological condition, and to require the adequate extraoral examination from the radiologist or radiographers. One part of the course is dedicated to General Radiology of the body. The aim of this part is to introduce students to radiological examination of the diseases of organ systems that may also affect maxillofacial region. Students learn to recognize radiological presentation of life-threatening pathological conditions.					
Outcome of the course By learning the basic skills in performing intraoral imaging methods, students will be able to perform the examination and to control the regularity of all intraoral imaging procedures. The latter is also required by the Law of Protection against Ionizing Radiation. Students will be also able to recognize pathological conditions of the teeth, jaws, paranasal sinuses, temporomandibular joints, and to require an adequate radiological examination from the radiologist/radiographer, when further examination is needed.					
Content of the course Basic Clinical Radiology course includes the basic principles related to the x-ray image aquisition, production of the final radiographs, analysis of intraoral and extraoral radiographs, and interpretation of radiological findings in the field of maxillofacial region. Students are introduced to the types of x-ray equipment and all radiological procedures used in the diagnosis of diseases of the maxillofacial region. This also includes the basic principles of the patient protection from radiation during the radiological examinations					
Recommended literature: C Peter-Adler: Bone diseases. Macroscopic, Histological, and Radiological Diagnosis of structural changes in the Skeleton. Springer, 2000. S Curtin. Haed and Neck Imaging. Mosby, 2002. Langalis, Langlang and Nortie: Diagnostic Imaging of the jaws, Baltimore, Williams and Vilkins, 1995					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 45	Practicals: 45	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		10		Written Test	
Activities at practicals		10		Practical exam	5
Colloquial exams		40		Oral exam	35
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				28
Level of studies: second				
Course: Pharmacology in Dentistry				
Professor in charge (Name, middle initial letter, surname): Dragica D Stojic				
Course status (compulsory/elective): compulsory				
ECTS: 6			Year of the study: III/5 th and 6 th semester	
Entry requirements(passed exams from the previous years):			Course code:ST13FARM	
Objectives of the course: To train the student to make right and safe choice for drug prescription for the treatment of oral diseases and emergency conditions in dental office by rational analysis of pharmacodynamic and pharmacokinetic characteristics and side effects of drugs. The purpose is also to learn and avoid unwonted interactions of drugs which are prescribed in dental office with drugs prescribed for medical reasons.				
Outcome of the course The student must have knowledge and comprehension of drug action mechanisms, fate of drugs and effects of drugs used for oral diseases, as well as drugs significant for dentistry (drugs which dental patients receive for medical reasons). A student must be competent to apply this knowledge in solving pharmacotherapeutic problems in clinical practise. Must have knowledge and competence to make rational choice of drug, its dose, to monitor drug therapeutic efficacy and posible side effects on the scientific bases of clinical pharmacology. Competents to manage pharmacotherapy of oral diseases, emergency conditions which could hapend in dental office, risk patients for dental treatment (cardiovascular, persons with special needs, psychiatry patients and children). Also to have knowledge to avoid unwonted interactions of drugs prescribed in dental office and for medical reasons. To have knowledge for competent drug prescribing.				
Content of the course During the lectures and practicals students will be introduced to basics of drug action mechanisms, fate of drugs and effects of drugs used for oral diseases, as well as drugs significant for dentistry (drugs which dental patients receive for medical reasons). Special attention will be focused on pharmacotherapy of oral diseases, emergency conditions which could hapend in dental office, risk patients for dental treatment and competent drug prescribing.				
Recommended literature: 1. Yagiela JA, Neidle EA, Dowd FJ. Pharmacology and Therapeutics for Dentistry. 5th ed. St Louis: Mosby; 2004. 2. Seymour RA, Meechan JG, Yates MS. Pharmacology and dental therapeutics. 3rd ed. Oxford: Oxford University Press; 1999.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 60	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 60	Final exam		points 40
Activities at lectures	5	Written test		
Activities at practicals	9	Practical exam		5
Colloquial exams	28	Oral exam		35
Seminars	18			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine		29
Level of studies: second		
Course: Basics of Oral Surgery and dental anesthesiology		
Professor in charge (Name, middle initial letter, surname): Radojica V Drazic		
Course status (compulsory/elective):		
ECTS: 6	Year of the study: III / 5 th and 6 th semester	
Entry requirements (passed exams from the previous years):	Course code: ST13ANES	
Objectives of the course: During the course of Basics of Oral Surgery and dental anesthesiology student should be introduced with possibilities of pain relief in dentistry, as well as the local anesthesia usage, alone or in combination with analgosedation or with general surgery. Student should learn the characteristics of certain local anesthetic solutions, as well as indications and techniques of local infiltration anesthesia used in dental practice. The students are required to learn the indications and techniques of intraoral block anesthesia used in dental practice, their advantages and disadvantages, but also to recognize the complications of local anesthesia and to learn procedures necessary for their proper treatment. The student is introduced with the procedures of sedation used in dental practice and should learn the indications and contraindications for their usage. The students are required to learn the advantages and disadvantages of different methods of sedation, as well as indications for the use of general anesthesia in dental practice. The students are required to learn the basics of cardio pulmonary cerebral resuscitation. In addition, student should be able to obtain medical history, perform physical examination and diagnose the most common diseases of the teeth, as well as to learn the most common indications for tooth removal. The students are required to learn the use of certain instruments for tooth removal as well as the phases of basic oral surgical intervention-exodontia and to be able to perform removal of the teeth of the upper and lower jaws. The students are required to learn the methods of asepsis and antisepsis in oral surgery, as well as stages of physiological wound healing after tooth extraction		
Outcome of the course After completing the course and passing the exam the student should: - gain a sound knowledge of possibilities of pain control in dentistry, benefits of isolated application of local anesthesia, combined use of local anesthesia and pharmacosedation and use of general anesthesia. - know properties of certain local anesthetic solutions. - be able to independently administer local infiltration anesthesia in the upper and lower jaws, mandibular anesthesia and remaining local infiltrations and intraoral blocks used in dentistry. - gain a sound knowledge regarding the selection of proper local anesthetic solutions and technique in medically compromised patients. - gain practical skills of local anesthesia techniques used in each dental specialties and know indications as well as the advantages and disadvantages of their use. - recognize and treat local and systemic complications of local anesthesia. - be able to obtain medical history, perform physical examination and diagnose the most common diseases of the teeth - recognize and diagnose the most common diseases of the teeth requiring exodontia - be able to choose proper instruments for tooth removal - independently perform removal of certain teeth in the upper and lower jaw - recognize stages of physiological wound healing after tooth extraction		
Content of the course The student will gain knowledge of use of local anesthesia, alone or in combination with analgosedation, or general anesthesia in dentistry. The student will know to choose appropriate anesthetic solution in accordance to specific dental procedure. The student will be able to perform infiltration and regional block anesthetic techniques for each dental – oral surgery procedure. The student should recognize common and less common complications of local anesthesia, and to be familiar how to treat and cure such complications. Student will be able to know indications and contraindication for application of each analgosedation method, as well as to know advantages and disadvantages for each analgosedation method in dentistry-oral surgery. The student will be introduced with general surgery in dentistry, and will be familiar with cardio-pulmo-cerebral reanimation. The student will be able to take patients dental and general history, will be familiar with the methods of objective physical examination the patients mouth. The student will be able to fuse data collected from patients dental and general		

history and data obtained physical examination the patients mouth, and in accordance to this will be able to diagnose most common diseases of teeth. Student will know most common indications for tooth removal, and will be able to use appropriate instruments for each tooth removal. Student ll learn phases of tooth removal, and ll be able to independently perform simple tooth extractions in both jaws and for each group of teeth. Student should also be familiar with choose of appropriate local anesthetic solution in medically compromised patient, as well as to know basics of proper hemostasis after tooth removal, phases of normal wound healing after tooth removal, as well as to recognise an treat common postextracion complications.

Recommended literature:

Mallamed SF. Handbook of local anaesthesia. Fifth ed. St Louis , Mosby 2004

Total number of classes in active teaching:

Lectures: 30	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work:	Professional practice/ independent work: 45
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Methods of teaching process

Grading of knowledge (maximal number of points 100)

Pre-exam compulsory activities	Total 50 points	Final exam 50 points	
Activities at lectures	7,5	Written Test	
Activities at practicals	7,5	Practical exam	20
Colloquial exams	35	Oral exam	30
Seminars			
Other			

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				30
Level of studies: second				
Course: Public health				
Professor in charge (Name, middle initial letter, surname): Ivanka S Gajic				
Course status (compulsory/elective): compulsory				
ECTS: 4			Year of the study: III/5 th semester	
Entry requirements(passed exams from the previous years):/			Course code:ST13JAZD	
Objectives of the course: To enable students to get basic theoretical knowledge related to dental public health and acquire skills to be applied to their daily dental routine.				
Outcome of the course Upon completing the course students should be able to: <ul style="list-style-type: none">- Identify public health risk factors for oral diseases and participate in health promotion programs in dental health care- Participate in integrated public health programs, campaigns and community actions concerning dental and chronic noncommunicable diseases and traumatism- Participate in prevention of nosocomial diseases and epidemics- Assess nutrition and nutritional status of individuals and populations, recognize nutritional disorders and their influence on oral health- Deliver professional nutrition-related advices regarding dental practice- Participate in organization and leadership in dental services- Participate in specific programs of oral health care in pregnant women, children, elderly and disabled				
Content of the course Contemporary approach to education of dental students is comprised of comprehensive knowledge related to public health/dental public health. Public health is the science and practice of preventing diseases and oral diseases, promoting health/oral health and improving quality of life through the organized efforts of society. Public health is concerned with making a diagnosis of population`s health problems, establishing the risks, causes and effects of those problems and planning the most effective measures and interventions. Public health is related to promoting the health/oral health of the population and focuses actions and activities at a community level.				
Recommended literature: Oxford Textbook of Public Health (5 ed.) .Edited by Roger Detels, Robert Beaglehole, Mary Ann Lansang, Martin Gulliford, Oxford University Press, 2009				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 60	Final exam		points 40
Activities at lectures	5	Written test		40
Activities at practicals	10	Practical exam		/
Colloquial exams	25	Oral exam		/
Seminars	10			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				31
Level of studies: second				
Course: Neuropsychiatry				
Professor in charge (Name, middle initial letter, surname):				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: III/5 th semester	
Entry requirements(passed exams from the previous years): /			Course code:ST13NEUR	
Objectives of the course: To introduce students with the basic principles in neurology and psychiatry				
Outcome of the course On completion of this course students should be able to describe basic neurological and psychiatric disorders.				
Content of the course During the course the following lectures will be held: Peripheral nervous system, reflexes, tone, diseases of muscles;Central nervous system, impairment of walk, types of paralysis; Disorders of basal ganglions, spinal cord, cerebellum; Modalities and disorders of sensation, autonomic system, brain-stem; Epilepsy, behaviour neurology; Headache, AIDS, infectious disease; Sclerosis multiplex, brain injury; Cerebrovascular diseases, cerebral tumors; Psychiatric functions, normal and disturbances in psychiatry; Non psychotic disturbances, personality changes; Schizophrenia; Depression, delusion, paranoid states; Toxicomans; Psychosomatic disorders, stomatology and psychiatry; Forensic psychiatry, treatments psychiatric disorders. Practicals will include examination of patients for different neurological and psychiatric disorders.				
Recommended literature: Neurology: A Queen Square Textbook. Clarke C et al (eds). Wiley-Blackwell, 2009, New Oxford Textbook of Psychiatry. Gelder M. et al (eds). Oxford University Press, 2012				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 60	Final exam		points 40
Activities at lectures	15	Written test		40
Activities at practicals	20	Practical exam		
Colloquial exams	20	Oral exam		
Seminars	5			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				32	
Level of studies: second					
Course: Ophthalmology					
Professor in charge (Name, middle initial letter, surname): Ljubisa B. Nikolic					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: 3rd / 5th semester		
Entry requirements(passed exams from the previous years):			Course code:ST13OFTA		
Objectives of the course: Gaining the knowledge of a discipline which is close to medical dentistry, from medical and biologic standpoint					
Outcome of the course Student trained to cope with some urgent conditions with eye involvement; to understand the systemic involvement in the diseases such as diabetes, arterial hypertension, inflammatory diseases, both infectious and immune; to understand and know the diseases which involve both the oral cavity and eye, or to propagate from one of these to another.					
Content of the course During the course the following lectures will be held: Functional anatomy, histology and physiology of the eye and vision; Ophthalmic pathology: dystrophies, degenerations, inflammation, edema, infiltration, tissue reparation; Corneal diseases; Diseases of the lids, tear drainage system, conjunctiva and sclera; The lens: cataract, phacolytic and phacomorphic glaucoma; Uveal diseases and the concept of the focal dental sepsis; Diseases of the retina; Glaucoma; Epidemiology of the leading causes of the preventable blindness; Neuroophthalmology; Diseases of the orbit; Ocular tumors; Anomalies of refraction. Strabism and amblyopia; Ocular trauma; Ocular surgery. Practicals will include examination of patients for different ophthalmological disorders.					
Recommended literature: James B, Chew C, Bron A. Lecture Notes on Ophthalmology. Blacwell Publishing, Oxford, 9th Edition, 2003					
Total number of classes in active teaching:				Professional practice/ independent work: /	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work: /		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		points 60	Final exam		points 40
Activities at lectures		20	Written test		30
Activities at practicals		25	Practical exam		10
Colloquial exams		10	Oral exam		
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				33
Level of studies: second				
Course: Infectology				
Professor in charge (Name, middle initial letter, surname): Mijomir R. Pelemiš				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: III/6 th semester	
Entry requirements(passed exams from the previous years):			Course code:ST13INFE	
Objectives of the course: Introduction to basic infectious diseases, changes in the oral cavity, epidemiological risks of working with patients suffering from infectious diseases, recognizing the importance of vaccination status of patients				
Outcome of the course students need to know: <input checked="" type="checkbox"/>				
<ul style="list-style-type: none">- To take a medical history with appropriate epidemiological data on infectious diseases, with special emphasis on HIV, HBV, HCV- To know the methodology of research података о болести у усној дупњи- To master the techniques of inspection, especially the head, neck and oral cavity- To acquire basic information about the immune status from patients' health cards, especially immunization against tetanus- To learn to link epidemiological risks and facts from medical history with objective findings in order to establish a working or final diagnosis- To learn the measures of prevention of infectious diseases: how to use a mask, a procedure with instruments before and after use, to maintain hand hygiene in order to prevent transmission of nosocomial infections, the basic ways of HIV, HBV, HCV infection transmission in dental practice- To learn the procedures for patients with suspected or proven infection- To learn the technique of taking a swab of focal infection and the further procedures with taken swabs- To learn to establish a working or final diagnosis based on medical history, objective status, basic laboratory findings and consultative activities- To learn procedure for reporting infectious diseases and obligation feedback- To learn to write medical documentation chronologically, legible and in at least two copies, based on medical history, observations, laboratory and clinical findings- To learn normal and pathological values of basic biochemical findings- To learn interpretation of bacteriological, virological and serological findings				
Content of the course During the lectures and practical students will be introduced with diagnostic, preventive and therapeutical techniques of infectious diseases as well with writing and interpretation of medical documentation.				
Recommended literature: Infectious diseases in Harrison's Principles of Internal Medicine, 18th Edition				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: 2 colloquial exams, 1 seminar (oral presentation)	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 60	Final exam	points 40	
Activities at lectures	10	Written test	40	
Activities at practicals	10	Practical exam		
Colloquial exams	30	Oral exam		
Seminars	10			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				34	
Level of studies: second					
Course: Basics of scientific work and research					
Professor in charge (Name, middle initial letter, surname): Aleksandra M. Milić Lemić					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: III/ 6 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13NAUK		
Objectives of the course: To train students to critically examine and review scientific information, to apply the procedures and methods that are based on the scientific facts, minimizing the errors in diagnostic procedure and providing the optimal choice of the therapeutical modality					
Outcome of the course After completing the course the student is trained to search through the existing scientific literature available databases (PubMed, Medline, etc..). Create art to understand the methodology applied scientific research, to be critical of the presented results and to assess their validity and to handle the terminology of thescientific research. Familiarize students with the design of the scientific research study, statistical method and data processing, create capabilities for presentation and publication of the results					
Content of the course Identify various study designs used in dental research and recognize widely used epidemiological and statistical measures in dental research, with proper interpretation of selected results. When completing the course students will be able to define a contemporary dental problem, collect the necessary literature, and critically evaluate the literature, including ethical and moral issues. Also they should be aware of tenets for copyright, plagiarism, ethics, and responsible conduct of research.					
Recommended literature: J. Peat, E. Elliott, L. Baur, V. Keena. Scientific Writing. London: BMJ Books, 2002 T. Greenhalgh. How to Read a Paper. London: BMJ Books, 2001. GM Hall. How to Write a Paper. London: BMJ Books, 1998. GM Hall. How to Present at meetings. London: BMJ Books, 2001 F. Chiappelli, P. Prolo, M. Newman, M. Cruz, E. Sunga, E. Concepcion and M. Edgerton Evidence-based Practice in Dentistry: Benefit or Hindrance. J Dent Res 2003 82: 6					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		15		Written Test	50
Activities at practicals		15		Practical exam	
Colloquial exams		10		Oral exam	
Seminars		10			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine		35
Level of studies: second		
Course: Oral surgery		
Professor in charge (Name, middle initial letter, surname): Snježana B Čolić		
Course status (compulsory/elective): compulsory		
ECTS: 10		Year of the study: IV/ 7 th and 8 th semester
Entry requirements (passed exams from the previous years):		Course code: ST13ORAL
Objectives of the course: During the course of oral surgery, student should learn to obtain a medical history, perform physical examination and diagnose oral surgical diseases, to independently perform simple and complex exodontia, to diagnose and to treat intra- and post- extraction complications, to diagnose and to treat odontogenic infections, to prescribe the medication for therapy of oral surgery diseases, to recognize risk patients and to prepare them for oral surgical treatment, to diagnose pathological lesions of the teeth and in the jaw and to set the indications for their treatment. Also, the student should gain knowledge of the basic principles of oral surgery, create a treatment plan and assist during minor oral surgical procedures. Each student should gain knowledge of basic principles of treatment of orofacial pain and skills to diagnose dental trauma and oroantral communication and to treat them properly, and to learn how to prevent and treat most of dental emergencies.		
Outcome of the course After completing the course and passing the exam of oral surgery student must be able to: <ul style="list-style-type: none">- obtain dental history and general medical history, to perform physical examination and diagnostic procedures necessary for diagnosing oral surgical diseases- administer intraoral block and infiltration local anesthesia for the purpose of diagnosis, surgical treatment or treatment of orofacial pain, and to treat the complications of local anesthesia- perform simple extraction of erupted teeth, remaining roots and complex extractions- treat complications following tooth extraction- establish local hemostasis during as well as after surgery- recognize risk patients and to prepare them properly for tooth extraction,- treat acute and chronic odontogenic infection and to administer appropriate medication- create a treatment plan and to inform the patient about the upcoming intervention and possible complications- have sound knowledge of the basic principles of oral surgery- perform minor surgery of bone and soft oral tissues- treat simple intra- and postoperative complications- prescribe medication for preoperative, operative, and postoperative treatment of oral surgical patients- diagnose pathological lesions (jaw cysts, benign tumors of the jaw, non-tumor lesions)- set the indications for surgical treatment of pulp diseases and periapical lesions and to treat them- have sound knowledge of the basic principles of treatment of dental trauma- diagnose oroantral communications and treat them conservatively- prevent and treat most of dental emergencies		
Content of the course The student will gain knowledge of the basic principles of oral surgery, know the indications and contraindications of the common procedures performed by the oral surgeon including surgical treatment of erupted, impacted and supernumerary teeth; preprosthetic surgery as well as surgical procedures associated with orthodontic treatment, treatment of pathological lesions of the jaw and odontogenic infections. In addition, the student will understand oral surgical management of medically compromised patients as well as principles of treatment of facial pain and dental trauma. The student will understand the most common potential complications and emergencies associated with the oral surgical procedures and their basic treatment The student will gain skills and clinical experience that will enable him to examine and evaluate a patient presenting with a surgical problem, interpret the results of a general physical evaluation, analysis of roentgenograms and laboratory data; set diagnoses and plan treatment, control patients' pain through the use of local anesthesia, write prescriptions and understand the use of prescription drugs in the practice of oral surgery. The student will be able to perform the following procedures: uncomplicated extraction of erupted teeth; uncomplicated removal of fractured or residual root tips; root separation in complex exodontia; management of post extraction wound including application of mechanical, biological, physical and chemical methods of hemostasis; treatment of uncomplicated infections of		

dental origin as well as to assess the status of impacted teeth and know the indications and contraindications for their removal.				
Recommended literature: James R Hupp, Edward Ellis III, Myron R Tucker : „ Contemporary Oral and Maxillofacial Surgery", Mosby, Inc.				
Total number of classes in active teaching:				Professional practice/ independent work: 45
Lectures: 60	Practicals: 90	Other modes of teaching process: colloquial exams, seminars	Study research work:	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Total 50 points		Final exam 50 points	
Activities at lectures	15		Written Test	
Activities at practicals	15		Practical exam	20
Colloquial exams	20		Oral exam	30
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine		36
Level of studies: second		
Course: Restorative odontology		
Professor in charge (Name, middle initial letter, surname): Vladimir M Ivanovic		
Course status (compulsory/elective): compulsory		
ECTS: 10		Year of the study: IV / 7 th and 8 th semester
Entry requirements(passed exams from the previous years): passed exam in preclinics		Course code: ST13REOD
Objectives of the course: To teach and train a student to acquire all necessary knowledge and skills to diagnose, treat and restore damaged tooth crown by caries or traumatic injury, independently, using adequate methods, materials and armamentarium that are applied in modern restorative odontology.		
Outcome of the course <ul style="list-style-type: none">- Complete knowledge on pulpo-dentinal complex and its defense responses.- Knowledge and handling with equipment, devices, instruments and other armamentarium in dental practice.- Knowledge to acquire complete general anamnesis, history of dental disease, clinical examination, diagnosis and treatment plan.- Theoretical knowledge and practical skills to prepare all types of cavities and permanent restorations, respecting principles of gnathology, and using current materials, instruments and accessories.- Profound theoretical knowledge and practical skills to conduct all methods for preserving dental pulp vitality in cases with deep carious lesions and accidental pulp injuries.- Theoretical knowledge about methods and materials that are used for indirect cavity restoration, both metal and aesthetic, and the advantages of indirect fillings.- Theoretical knowledge about bio-physical alterations in pulpless teeth and on basic principles for restoration of endodontically treated teeth.- Theoretical knowledge about methods and means for bleaching of vital and pulpless teeth – aesthetic effects, possible complications and technical limitations.		
Content of the course <p>Lectures: Organization and equipment of clinical practice, with crucial steps, instruments and accessories for different restorative procedures for all types of cavities and traumatic teeth injuries. Pulpodentinal response to exogenous irritations, treatment methods, medicaments and their effects on reparative dentinogenesis and prevention of the dental pulp vitality. Clinical application of different lining base and filling materials for direct cavity restorations: lining cements, amalgam, composite adhesive systems, glass-ionomers. Procedures for indirect cavity fillings and restoration of endodontically treated teeth. Clinical parameters and methods for follow-up trials of restored teeth and comparison between different restorative materials.</p> <p>Practical courses and student independent clinical practice on patients: Organization and direct training for entire clinical procedure, equipment, instruments and accessories for preparation and restoration of all type of cavities, with all current materials. Maintaining of pulp vitality by indirect and direct pulp capping using adequate medicaments and filling materials, with follow up controls for the therapy success. Compulsory programme of practical courses includes 6 amalgam fillings, 12 aesthetic restorations, 2 MOD restorations and 5 indirect /direct pulp cappings.</p>		
Recommended literature: <ol style="list-style-type: none">1. Pickard's manual of operative dentistry, 9th eds. Banerjee A, Watson TF, Oxford University Press, UK, 2011.2. Fundamentals of Operative Dentistry: Summitt J.B et al., 3rd ed. Quintessence Publishing Co Inc, 2006.3. Pulp and dentine biology in restorative dentistry. Mjør IA; Quintessence publishing, Hanover Park, USA, 2002.4. Bergenholz et al. Textbook of Endodontology, 2nd eds, Wiley-Blackwell, Chichester, UK, 20105. Dental Caries. The disease and its clinical management. 2nd eds. Editors: Kidd E, Fejerskov O; Blackwell Publishing, Oxford, UK, 2008.		

Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 135	Other modes of teaching process: colloquial exams, seminars	Study research work: /	45
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam		points 50
Activities at lectures	6	Written test		20
Activities at practicals	30	Practical exam		30
Colloquial exams	12	Oral exam		
Seminars	2			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				37	
Level of studies: second					
Course: Removable prosthodontics					
Professor in charge (Name, middle initial letter, surname): Vojkan M Lazć					
Course status (compulsory/elective): compulsory					
ECTS: 14			Year of the study: IV / 7 th and 8 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13MOBI		
Objectives of the course: Obtaing theoretical and practical knowledge for independent performace of clinical procedures in removable prosthodontics.					
Outcome of the course After finishing the course the student obtained the theoretical knowledge about the clinical procedures in manufacturing complete denture, partial acrylic and removable partial denture. Students are trained at their practicals to realize the preliminary and final impressions, determine jaw relations and perform the teeth set-up. Also they are capable to deliver complete and partial denture, give instructions to the patients and perform later check ups. After completing the course and passing the exam students are introduced to clinical procedures in complex partial dentures with precission elements or telescopic crowns.					
Content of the course Focusing on the manipulation of dental materials most commonly used in the dental office, theroretical lecturers also discusses the basic scientific approach to clinical procedures in complete denture and removable pratial denture making. The course also includes concerns about patients general and oral helath, diagnosis and therapy options and planning. General steps like choosing the proper impression tray, impresion taking and all others are performed in different patients during different clinical cases. The students are also learning about the rationale in RPD framework designs, communication with the laboratory technicians and dental assistants.					
Recommended literature: Basker R M & Davenport J C: <i>Prosthetic Treatment of the Edentulous Patient</i> . 4 ^{ed} , Blackwell Munksgaard,a Blackwell Publishing Company 2002 Mc Cracken WL. <i>Partial Denture Construction</i> . Mosby Co., 1998. Wat D. M., Mac Gregor A.R.: <i>Desining partial dentures</i> , Wright. Bristol. 1984 Becker C. M.,Harrison A., Ralph J. P., Watson C.J.: <i>Overdentures in general dental practice</i> , Brit. Dent. Association, London 3 rd . ed 1993.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 180	Other modes of teaching process: colloquial exams, seminars	Study research work:	45	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	
Activities at practicals		20		Practical exam	20
Colloquial exams		20		Oral exam	30
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine		38
Level of studies: second		
Course: Oral medicine		
Professor in charge (Name, middle initial letter, surname): Ljiljana B Janković		
Course status (compulsory/elective): compulsory		
ECTS: 9		Year of the study: IV, 7th and 8th semester
Entry requirements(passed exams from the previous years): passed all general medical courses		Course code:ST13ORME
Objectives of the course: Training for independant diagnostics procedures, development and implementation of the treatment plan for patients with pathological changes of oral mucosa		
Outcome of the course <ul style="list-style-type: none"> - Taking dental history and relevant general medical history - Conducting a dental clinical examination <ul style="list-style-type: none"> recognizing the signs and symptoms of oral disease recognizing oral manifestations of systemic disease recognizing the symptoms and signs of pre-malignant and malignant diseases - Carring out diagnostic procedures - Analysis and interpretation of medical records - The planning of treatment - Explaining to the patient the assessment of their problems and plan further tests and treatments - Performing clinical procedures (dental - prevention and treatment) - Diagnostics of urgent medical conditions, and administration of appropriate drugs Conducting an emergency intervention		
Content of the course Oral medicine is the parts of dentistry responsible for the oral health care of medically compromised patients and for diagnosis and management of medically related disorders or conditions affecting the oral and maxillofacial region. The practice of oral medicine enables optimal health to all people through diagnosis and management of oral diseases. <ul style="list-style-type: none"> - Recognition of interaction of oral and systemic health - Integration of medicine and oral health care - Management of pharmaco-therapeutics necessary for treatment of oral and systemic diseasee - Investigation of the etiology and treatment of oral diseases through basic science, oral epidemiology and clinical research - Provision of care for the medically complex patients, elderly and thouse undergoing cancer therapy - Prevention, diagnosis and management for the following disorders to include: oral mucous membranes, salivary gland diseases, oro-facial pain, immunosuppression and secondary to druge side effects. Mandatory program for students during practicals: Diagnostic procedure Filling in Medical documentation chart - 2 patients;Diagnostic procedure: Disease history and clinical examination - 4 patients; Diagnostic procedure: Investigation – data analysis adn takina a microbilogz smear – 2 patients; Treament: Elimination of local irritation – 4 patients.		
Recommended literature: <ol style="list-style-type: none"> 1.Burket's Oral Medicine 11ed Martin Greenberg, Michael Glick, Jonathan A. Ship 2008 2.Oral and Maxillofacial Medicine: The Basis of Diagnosis and Treatment, 3e Crispian Scully 2013 3.Cawson's Essentials of Oral Pathology and Oral Medicine, 8ed Roderick A. Cawson 2012 		

Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 45	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work: /	30
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam	points 50	
Activities at lectures	5	Written test		
Activities at practicals	30	Practical exam	20	
Colloquial exams	12	Oral exam	30	
Seminars	3			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				39
Level of studies: second				
Course: Preclinical endodontics				
Professor in charge (Name, middle initial letter, surname): Nevenka S Teodorović				
Course status (compulsory/elective): compulsory				
ECTS: 5			Year of the study: IV, 8 th semester	
Entry requirements(passed exams from the previous years): passed exam in Restorative odontology			Course code:ST13PREN	
Objectives of the course: To teach and train a student to acquire all necessary knowledge and skills to endodontically treat teeth with pulpal and periapical disease				
Outcome of the course <ul style="list-style-type: none">•Knowledge on isolation of the clinical crown, handling and use of rubber dam.•Knowledge about basic principles and endodontic treatment methodology•Profound knowledge of teeth morphology and root canal anatomy•Knowledge about objectives and guidelines for access cavity preparation and practical skills to prepare all types of access cavities on the models• Theoretical knowledge and practical skills to conduct different medhodes of measuring canal length in laboratory conditions.•Theoretical knowledge about various types of endodontic instruments and practical skills to use them in the root canal therapy of acrylic teeth of different morphological groups.•Knowledge about medications and irrigating solutions and chemo-mechanical root canal preparation of acrylic teeth.•Theoretical knowledge of different techniques for definitive root canal obturation and practical skills to perform mono-cone technique and lateral condensation technique for permanent root canal obturation of acrylic teeth.•Knowledge to perform every basic step in endodontic procedure and to understand the direct connection to treatment outcams.•Theoretical and practical knowledge about endodontic therapy that can be used in clinical conditions.				
Content of the course Lectures: Key points and goals of endodontic therapy , teeth morphology and root canal anatomy.Different endodontic instruments and equipment of clinical endodontic practice.Manual techniques for root canal preparation, irrigation procedures and various irrigating solutions and medicaments.Materials and techniques for definitive root canal obturation. Practical courses and student independent preclinic practice on modelsand acrylic teeth: Direct training for preclinical endodontic procedure, instruments for access cavity preparation,instruments and manual techniques for root canal preparation (Step-back,Crown- down) on acrylic teeth.Medication and methodology of root canal irrigation.Different materials and techniques for permanent root canal obturation.				
Recommended literature: 1. Bergenholz et al. Textbook of Endodontology, 2nd eds, Wiley-Blackwell, Chichester, UK, 2010. 2. Leif Tronstad. Clinical endodontics-a textbook, 3rd eds, Thieme, NY, USA, 2009.				
Total number of classes in active teaching:				Professional practice/ independent work: / 30
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				

Grading of knowledge (maximal number of points 100)			
Pre-exam compulsory activities	points 50	Final exam	points 50
Activities at lectures	6	Written test	25
Activities at practicals	30	Practical exam	25
Colloquial exams	12	Oral exam	
Seminars	2		
Other			

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				40	
Level of studies: second					
Course: Gerodontology					
Professor in charge (Name, middle initial letter, surname): Ljiljana Đ. Tihaček Sojić					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: IV / 7 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13GERO		
Objectives of the course: Getting familiar with the aging process, and timely dental care in elderly patients, through the clinical and preventive methods in order to provide maximum care of stomatognathic system with adequate prosthetic rehabilitation of old and sick people.					
Outcome of the course After passing the exam, the student is able to recognize the differential diagnosis of the pathological changes and emergencies in the oral cavity, as well to provide adequate dental treatment, depending on the mental and physical condition of elderly patients. In addition, the student is qualified to carry out the appropriate prosthetic treatment depending on the age, cooperative level and general health status of the patient.					
Content of the course During lectures and practicals the students will be generally introduced with specific procedures in dental treatment of elderly patients. Also all aspects of ageing are analysed, with manifestations of aging in stomatognathic system.					
Recommended literature: Poul Holm-Pedersen, Harald Løe: Textbook of Geriatric Dentistry, Blackwell Oxford, 2011					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:	15	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	
Activities at practicals		20		Practical exam	20
Colloquial exams		20		Oral exam	30
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				41
Level of studies: second				
Course: Patients of risk				
Professor in charge (Name, middle initial letter, surname): Ljiljana B Janković				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study:IV, 8 th semester	
Entry requirements(passed exams from the previous years): passed all general medical courses			Course code:ST13PARI	
Objectives of the course: Comprehensive understanding of the problems of high risk patients, their identification, the complexity of therapy and methods of its implementation, and the importance of cooperation with other specialists (team work). The goal of teaching is for students to master both methods and techniques used in planning and implementation of treatment of these patients.				
Outcome of the course - Comprehension of major general diseases with oral manifestations and their impact on dental treatment - Comprehension of the complex interaction of oral health, nutrition, general health, drugs and diseases that can affect dental care and oral diseases - Taking a detailed dental history and relevant general medical history - Conducting clinical dental examination - Using laboratory and radiological methods and interpretation of the results - Information on the patient's health status and drugs used in the treatment of other diseases (awareness of the pharmacological properties of drugs, their side effects and interactions with other drugs), as well as the characteristics of drugs that are commonly used in oral medicine - Knowing when to refer a patient to the appropriate specialists - Explaining to the patient about the nature of his disease and planning further tests and treatment - Planning of modified dental therapy - Performing clinical procedures (dental procedures – prevention and treatment) - Diagnosing urgent medical conditions and administration of appropriate medication - Performing urgent dental interventions				
Content of the course Prvention and care for the medically compromised patients is one of the biggest problems in dentistry. Dental management of medical compromised patients include the following: - identifications of systemic disease that could require modification of dental treatment - identification of systemic disease that could pose a threat to dental personnel or other parients - identification of drugs or medicine that could result in adverse intereaction with drugs or treatment administered by the dentist - establishment of good patient-dentist raport by demonstrating concern about the patient's overall health problems and wellbeing - facilitation of effective communication with the patient's physician - provision of medicolegal protection for dental staff Mandatory students' curriculum within the scope of practical courses: comprehensive work on one patient – medical history, laboratory tests, oral tests and creation of modified therapy plan, control examinations and assessment of the success of the therapy				
Recommended literature: 1.Burket's Oral Medicine 11ed. Martin Greenberg, Michael Glick, Jonathan A. Ship 2008 2.Dental Management of the Medically Compromised Patient, 8ed. James W. Little DMD MS, Donald Falace DMD, Craig Miller DMD MS, Nelson L.Rhodus DMD MPH 2012.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work: /	15
Methods of teaching process				

Grading of knowledge (maximal number of points 100)			
Pre-exam compulsory activities	points 50	Final exam	points 50
Activities at lectures	15	Written test	50
Activities at practicals	30	Practical exam	
Colloquial exams	/	Oral exam	
Seminars	5		
Other			

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				42	
Level of studies: second					
Course: Community oral health care					
Professor in charge (Name, middle initial letter, surname): Mirjana D. Ivanovic					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: IV / 7 th semester		
Entry requirements (passed exams from the previous years): Preventive dentistry			Course code: ST13ZAJE		
Objectives of the course: Improving students' knowledge on public health aspects of oral diseases, to obtain skills in evaluating oral health and, accordingly, to plan oral health prevention and promotion needs for all community members with a resulting comprehensive preventive program.					
Outcome of the course Student has to be able to understand and accept principles of oral health promotion as a fundamental direction of all community segments in oral health promotion. Dental student has to be able to recognize and implement oral health indicators to evaluate oral health status, which should follow with planning of preventive, prophylactic and treatment measures. Dental student has to be able to suggest an individual preventive program, a preventive program for a targeted population and a preventive program for a community. Dental student has to be familiar with the Program of preventive oral health care in Republic of Serbia. Dental student has to be able to organize and implement oral diseases prevention in his local community.					
Content of the course Theoretical studies: Introduction in oral health care, definition and values, socio-medical importance of oral health, planning needs for oral health care, methodology of epidemiological research, oral health indicators, preventive program – community role, organization of oral health care in a community; quality, evaluation and oral health care strategies. Practical studies: Exercises, other forms of studies, study related research. Learning and practicing skills in oral health indicators, methodology of epidemiological research and follow up of oral diseases, identification of oral health needs, oral health care organization and implementation in local community, program of oral health care, evaluation of oral health care program and national program of oral health care. Mentors assignment for thesis, title definition for thesis seminar, literature review for thesis seminar and presentation of obtained results and final thesis seminar.					
Recommended literature: Pine C., Harris R.: „COMMUNITY ORAL HEALTH“, Quintessence Publishing, UK Catalogue, 2007 Murray J.J.: „PREVENTION OF ORAL DISEASES“, 3th Edition, Oxford University Press, Oxford, 1996.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:	15	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	
Activities at practicals		15		Practical exam	
Colloquial exams		30		Oral exam	
Seminars					
Other				Realization and defence of the thesis seminar	50

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				43	
Level of studies: second					
Course: Clinical gnathology					
Professor in charge (Name, middle initial letter, surname): Slobodan M Dodić					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: IV / 8 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13KLG		
Objectives of the course: For student to learn and acquire knowledge regarding diagnostics and therapy modalities in treatment of craniomandibular disorders (CMD)					
Outcome of the course After lectures and practical lessons, student will be acquainted with treatment planning during reconstructive procedures, according to contemporary occlusal concepts. Also student will learn diagnosis and therapy of craniomandibular disorders, methodology of reversible occlusal therapy and basic principles of occlusal balancing with selective grinding.					
Content of the course Lectures will focus on functional analysis and evaluation of occlusal and orofacial complex, occlusal considerations in restorative dentistry, prosthodontics and implantology, modalities of occlusal therapy and adjustments. Lectures will introduce them to etiology, symptoms and therapy of craniomandibular disorders, pathology and treatment of tooth wear and computerized T-scan analysis. The objective of clinical practice is application of theoretical knowledge for evaluation of occlusal complex, occlusal contacts in centric relation, learning to recognise and solve occlusal problems with hands-on fabrication of stabilising occlusal appliance- Michigan splint.					
Recommended literature: J.P.Okeson: Management of Temporomandibular Disorders and Occlusion, 6th edition, Mosby, 2008 Daniel M. Laskin, Charles S. Greene, William L. Hylander: Temporomandibular Disorders: An Evidence-Based Approach to Diagnosis and Treatment, Quintessence publishing, 2006					
Total number of classes in active teaching:				Professional practice/ independent work: 15	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	20
Activities at practicals		10		Practical exam	30
Colloquial exams		30		Oral exam	
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				44	
Level of studies: second					
Course: Pediatric dentistry					
Professor in charge (Name, middle initial letter, surname): Zoran R. Vulićević					
Course status (compulsory/elective): compulsory					
ECTS: 8			Year of the study: V / 9 th and 10 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13DEST		
Objectives of the course: The aim of this subject is to introduce the student to the particularities related to dental management of children and					
Outcome of the course Upon theoretical and practical training and exam each student should be able to: Understand main principles of pediatric dentistry, importance of maintaining oral and dental health in children, as well as particularities related to dental management of children and adolescents, adopts dental techniques and recognizes psychological types of children. Also, should know characteristics of primary and permanent dentition, as well as specific aspects of dental caries and cavity preparation in primary and permanent dentition and adopt principles of minimally invasive restorative techniques. The student has knowledge in pain management. Student is familiar with materials used in pediatric dentistry. Has understanding and knowledge of endodontic treatment principles of primary and immature permanent teeth, surgical procedures in childhood and treatment of traumatic dental injuries. Knows treatment principles of dental infections. Capable to diagnose periodontal disease in children, bacteriological and other infections in children. Student is aware of management of emergencies in dental practice and prosthetic treatment options of children and adolescents. Student has knowledge of dental care of children with disabilities.					
Content of the course <i>Theoretical studies:</i> During theoretical course students will be taught about: dental management of children and adolescents, diagnostic and therapeutic procedures in primary and permanent dentition, craniofacial growth and development, management of pain and anxiety, prevention of dental caries and oral disease, periodontal diseases in children and traumatic dental injuries. <i>Practical studies:</i> Exercises, other forms of studies, study related research. Students will be taught about particularities related to dental care in children and adolescence. Students will be also trained in performing diagnostic, differential diagnostic and therapeutic procedures in pediatric dentistry					
Recommended literature: Paediatric dentistry. Edited by Richard Welbury, Monty S. Duggal, Marie Therese Hosey. Oxford University Press, 2012.					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 60	Practicals: 90	Other modes of teaching process: colloquial exams, seminars	Study research work:	45	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	
Activities at practicals		15		Practical exam	20
Colloquial exams		20		Oral exam	30
Seminars		10			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				45
Level of studies: second				
Course: Orthodontics				
Professor in charge (Name, middle initial letter, surname): Predrag V Nikolic				
Course status (compulsory/elective): compulsory				
ECTS: 9			Year of the study: V, 9 th and 10 th semester	
Entry requirements(passed exams from the previous years): /			Course code:ST13ORTO	
Objectives of the course: Competency in etiology, prevention, diagnostic and treatment procedures of orthodontic anomalies.				
Outcome of the course After completing the course the student should know to: Define orthodontics as discipline, its task, importance and goals; Define terms of normal, mesial and distal occlusion; To be familiar with prenatal and postnatal growth and development of orofacial system; Characteristics of normal occlusion in deciduous, mixed and permanent dentition; Functions of orofacial system; Etiological factors of malocclusions; Take anamnestic data and clinical observation; Take impressions, make and analyse cast models; Analysis of intra and extra radiographs; Analysis of lateral cephalograms, cephalometric landmarks and planes. General principles and interpretation of basic parameters Methods for assessment of growth patterns. Skeletal and dental age; Prevention of orthodontic anomalies – prenatal and postnatal; Diagnostics and treatment planning for tooth position, shape, number and size irregularities Diagnostics and treatment planning for dental arch size and shape irregularities Diagnostics and treatment planning for sagittal, transverse and vertical malocclusions Biomechanics; Indications, planing and fabricating removable appliances; Indications, planing and fabricating functional appliances; Indications, and treatment phases with fixed appliances; Retention.				
Content of the course During the lectures and practicals of this course students will get knowledge and skills prevention, diagnostics and treatment planning of various orthodontic anomalies.				
Recommended literature: Proffit WR, Fields HW, Sarver DM. Contemporary Orthodontics. 5 th eds, Elsevier, St. Louis, USA, 2007. Proffit WR, White JR, Sarver DM. Contemporary Treatment of Dentofacial Deformity. 2002, Mosby, St.Louis				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 60	Practicals: 105	Other modes of teaching process: colloquial exams, seminars	Study research work: /	45
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	Points 50	Final exam 50	points	
Activities at lectures	10	Written test		
Activities at practicals	22	Practical exam	20	
Colloquial exams	18	Oral exam	30	
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				46	
Level of studies: second					
Course: Fixed prosthodontics					
Professor in charge (Name, middle initial letter, surname): Vojkan M Lazć					
Course status (compulsory/elective): compulsory					
ECTS: 10			Year of the study: IV / 7 th and 8 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13FIKS		
Objectives of the course: Obtaining theoretical and practical knowledge for independent performance of clinical procedures in fixed prosthodontics					
Outcome of the course After finishing the course the student obtained the theoretical knowledge about the clinical procedures in manufacturing post and core, PFM, ceramic crowns and bridges. Basic principles of teeth preparation are in students knowledge as well the procedures of try in, and final cementation. Students are trained at their practicals to realize the final impressions for fixed prosthodontics using C silicone, A silicone in one phase or in two phases. After completing the course and passing the exam students are introduced to clinical procedures in complex partial dentures with milled crowns with precision elements or telescopic crowns.					
Content of the course Theroretical lecturers discusses the basic scientific approach to clinical procedures in fixed prosthodontics. The course also includes concerns about patients general and oral helath, diagnosis and therapy options and planning. General steps like choosing the proper impression tray, impression materials and performing impresion in fixed prosthodontics and all others are performed in different patients during different clinical cases. The students are also learning about the rationale PFM bridges designs, communication with the laboratory technicians and dental assistants. During practicals the students are trained to perform final cementation with proper selection of dental cements and their manipulation.					
Recommended literature: Shilinburg T.: Fundamentals of fixed prosthodontics (fourth ediotion) Quintensence Publishing Co Inc, London 2012 Rosenstiel SF, Land MF, Fujimoto J. Contemporary Fixed Prosthodontics.. Mosby 2006					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 180	Other modes of teaching process: colloquial exams, seminars	Study research work:	45	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	
Activities at practicals		20		Practical exam	20
Colloquial exams		20		Oral exam	30
Seminars		5			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				47
Level of studies: second				
Course: The basics of periodontology				
Professor in charge (Name, middle initial letter, surname): Sasha M Jankovic				
Course status (compulsory/elective): compulsory				
ECTS: 6		Year of the study: V, 9 th and 10 th semester		
Entry requirements(passed exams from the previous years): passed all general medical courses		Course code:ST13PAR1		
Objectives of the course: <ul style="list-style-type: none">to train the student in diagnosis, prognosis and treatment plan establishment in periodontology.To train the student to perform initial periodontal treatment				
Outcome of the course Diagnostic skills in periodontology Anamnesis, oral hygiene verification, periodontal status assessment Determine final diagnosis Determine the prognosis for the group of teeth and for the complete dentition Knowledge on instruments and instrumentation Knowledge on instruments sharpening and ultraconic devices application Perform initial periodontal phase of treatment				
Content of the course Summary of basic principles of periodontology, including aetiology, diagnosis, differential diagnosis, indications and contraindications for initial periodontal treatment and initial periodontal therapy performance. Training in initial periodontal treatment plan and performance. Establishment of prognosis and final treatment plan. Knowledge in use of adequate instruments, instrumentation and application of chemio-therapeutic agents. Overview in periodontal treatment phases. Mandatory program for students during practicals: Diagnosis and differential diagnosis of periodontal diseases. Oral hygiene level and periodontal status assessment. Diagnosis and treatment plan. Initial periodontal treatment (Phase I periodontal treatment);2-4 patients (Phase I periodontal treatment); 2 surgical assistances.				
Recommended literature: Lindhe, J. Clinical periodontology and implant dentistry Wiley-Blackwell, 2008. Nyman M, et al. Carranza’s Clinical Periodontology, Elsevier, 2006.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work: /	45
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam		points 50
Activities at lectures	5	Written test		
Activities at practicals	30	Practical exam		20
Colloquial exams	15	Oral exam		30
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine		48
Level of studies: second		
Course: Endodontics		
Professor in charge (Name, middle initial letter, surname): Branislav V. Karadzic		
Course status (compulsory/elective): compulsory		
ECTS: 9		Year of the study: V, 9th and 10th semester
Entry requirements(passed exams from the previous years):		Course code:ST13ENDO
Objectives of the course: Acquisition of necessary knowledge and skills for independent diagnosis and treatment of teeth with pulpal and periapical diseases.		
Outcome of the course <ol style="list-style-type: none"> 1. Knowledge of symptomatic and asymptomatic pulpal and periapical diseases, etiology and pathogenesis 2. Knowledge and use of diagnostic methods in endodontics and independent diagnosis and differential diagnosis of pulpal and periapical diseases 3. Knowledge and use of the principles of aseptic work during endodontic treatment, management and sterilisation of endodontic instruments and establishment of dry and aseptic work field. 4. Knowledge of endodontic treatment principles and phases 5. Mastering and application of treatment methods in endodontic therapy of vital pulp (biopulpectomy, necropulpectomy) in teeth with simple root canal system 6. Knowledge of endodontic treatment principles and issues in complex root canal systems 7. Mastering and application of treatment methods in endodontic therapy of infected root canals (necrosis, gangrene) in teeth with simple root canal system 8. Mastering and application of treatment methods in endodontic therapy of periapical diseases (symptomatic and asymptomatic) in teeth with simple root canal system 9. Knowledge and use of indications, effects and disadvantages of root canal medication 10. Knowledge and use of materials and methods for root canal obturation 11. Identification of errors and complications during endodontic treatment, etiology and treatment modalities 12. Knowledge of endodontic retreatment indications, possibilities, orthograde and retrograde retreatment techniques 13. Knowledge and use of different canal retention systems in endodontically treated teeth 14. Knowledge of teeth crown discolorations, etiological factors, bleaching methods and techniques for non-vital teeth 15. Identification of root fractures and treatment possibilities depending on the localisation of the fracture line and pathophysiological status of dental pulp and periodontium 16. Knowledge of endodontic emergencies and their treatment methods 		
Content of the course Lectures: Diagnosis and differential diagnosis of pulpal and periapical diseases; Aseptic work in endodontics, sterilization of endodontic instruments; Pain in dental and maxillofacial region – differential diagnosis; Aetiology, pathogenesis, diagnosis and differential diagnosis of symptomatic and asymptomatic pulpal diseases (acute and chronic pulpitis); Aetiology, pathogenesis, diagnosis and differential diagnosis of symptomatic and asymptomatic periapical diseases (acute and chronic periodontitis); Radiographic diagnosis of periapical diseases and differential diagnosis regarding other maxillofacial diseases and anatomic structures; Endoperiodontal lesions - Aetiology, pathogenesis, classification, diagnosis and differential diagnosis; Endodontic treatment of the vital pulp – bio- and necro-pulpectomy; Endodontic treatment of acute and chronic periodontitis; Endodontic treatment of endoperiodontal lesions; Pharmacotherapy in endodontics –antibiotics, corticosteroids, antiseptics, MTA...; Specific aspects of anaesthesia and analgesia in endodontics; Endodontic emergencies; Root canal obturation – goals, preconditions, materials, techniques; Endodontic aspects of internal and external resorptions and immature teeth; Endodontic complications; Endodontic retreatment – indications, techniques, instruments; Regenerative process after endodontic treatment of pulpal and periapical diseases; Surgical endodontics – indications, techniques, retrograde obturation; Odontogenic tumors; New technologies in endodontics – endodontic microscope, devices, instruments, rotary instruments; Bleaching of non-vital and endodontically treated teeth; Biophysical principles, materials and methods for reconstruction of endodontically treated teeth, systems for root canal retention and coronal-radicular restoration; Endodontic treatment of high risk patients and patients with chronic diseases.		

Practical courses and student independent clinical practice on patients: Introduction to clinical procedure – preparation for the endodontic procedure, information for patient regarding diagnosis, indications, treatment and expected outcome of the treatment, medical documentation in endodontics; Diagnosis and differential diagnosis of acute and chronic pulpitis and apical periodontitis, patient's history, clinical examination, analysis of indications and treatment planning, accessory diagnostic tools, radiography in endodontics; Endodontic procedure on vital pulp and periapical diseases – preparing access in different morphological groups, extirpation, identification of root canal orifices, initial patency, working length determination, endodontic instruments, root canal instrumentation using Crown-Down and Step-Back techniques, irrigation, medication, obturation (monocone technique, lateral compaction); Radiographic post-obturation control Endodontic emergencies; Endodontic retreatment-indications, techniques; Endodontic complications – perforations, zipping, fractured instruments, identification, treatment; Reconstruction of endodontically treated teeth – indications and application of composite and FRC posts, other forms of canal retention; Treatment of injured and fractured teeth; Bleaching of non-vital teeth. Compulsory programme of practical courses includes 10 root canal treatments, 3 reconstructions of endodontically treated teeth, 2 direct or indirect pulp cappings.				
Recommended literature: 1. Bergenholz et al. Textbook of Endodontology, 2nd eds, Wiley-Blackwell, Chichester, UK, 2010. 2. Leif Tronstad. Clinical endodontics-a textbook, 3rd eds, Thieme, NY, USA, 2009.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 135	Other modes of teaching process: colloquial exams, seminars	Study research work: /	45
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam		points 50
Activities at lectures	6	Written test		20
Activities at practicals	30	Practical exam		30
Colloquial exams	12	Oral exam		
Seminars	2			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				49	
Level of studies: second					
Course: Dental traumatology in children					
Professor in charge (Name, middle initial letter, surname): Ivana, S, Radović					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: V / 10 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13POVR		
Objectives of the course: To gain knowledge about characteristics, aetiology and epideimilogy of dental trauma in children and adolescents; to learn to diagnose and manage dental trauma in children and adolescents.					
Outcome of the course Upon completion of the subject the student should be able to understand characteristics, epidemiology and classification of dental trauma, implement dental trauma guidelines, diagnose and manage dental trauma as well as dental trauma complications.					
Content of the course <i>Theoretical studies:</i> Lectures will cover all important topics related to classification, nature, diagnosis, treatment and potential complications of dental trauma in children and adolescents. The importance of treatment plan formulation and priorities in patient management will be emphasized. Contemporary guidelines for dental trauma management will be presented. Dental materials, equipment and techniques for the optimal management and monitoring of dental trauma will be presented. Students will be trained to assess, examine and triage a patient with dental trauma. Course will cover interpretation of radiographs, as well as execution and evaluation of clinical techniques including teeth splinting and restorative treatments. The need for confident and efficient patient management and the need for clear and effective communication with patients and their parents/guardians will be emphasized. described					
Recommended literature: Jens O. Andreasen, Leif K. Bakland, Maria Teresa Flores, Frances M. Andreasen, Lars Andersson. Traumatic Dental Injuries: A Manual, 3rd Edition. April 2011, Wiley-Blackwell .					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:	30	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	
Activities at practicals		15		Practical exam	50
Colloquial exams		20		Oral exam	
Seminars		10			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				50	
Level of studies: second					
Course: Oral health care for disabled patients					
Professor in charge (Name, middle initial letter, surname): Dejan Lj. Markovic					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: V / 10 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13POTR		
Objectives of the course: To obtain competency in examining, treatment planning, first aid and preventive treatments for children with impairments and disabilities; to understand and implement principles of treating patients in general anaesthesia					
Outcome of the course To understand epidemiological and social characteristics of the group of special need patients; To recognise different types of handicaps with its medical and dental specifics; To understand principles of behavioural techniques in the group of special need patients; To recognize oral pathology associated with different types of medical and mental handicaps; To be able to make dental examination and the treatment plan; To understand preventive and prophylactic measures that can be applied in the group of special need patients; To understand possibilities of conventional dental treatment and intravenous/inhalation sedation in the group of special need patients; To recognize specifics of general anaesthesia; To form positive attitude towards special need patients; To recognize law regulation from the domain of dental care for special need patients.					
Content of the course Lectures: Characteristics of oral pathology in special need patients, types of handicap, possibilities of dental treatment, methods and techniques of communication with special need patients before and during the dental treatment, behavioural techniques, preventive measures, prophylaxis of oral diseases, orthodontic treatment of cleft palate and hard craniofacial deformities, premedication and sedation in special need patients, general anaesthesia in dental treatment of special need patients (dental treatment of children and adults under general anaesthesia), law considerations. Practical work: Conventional dental treatment, out operatory room treatment, communication methods for specific patient groups, dental treatment under general anaesthesia, multidisciplinary approach to dental care of special need patients					
Recommended literature: Dental Care of the Medically Complex Patient, By Peter B. Lockhart, June H. Nunn, John G. Meechan. Published 2004 Elsevier Health Sciences. 2. Special Care Dentistry Author(s)/Editor(s): Fiske, Janet / Dickinson, Chris / Boyle, Carole / Rafique, Sobia / Burke, Mary. Quintessence Publishing. 3. Childhood impairment and disability, J.H.Nunn (chap.17 in Paediatric dentistry, edited by Welbury, Duggal and Hosey. Oxford University press, 2005.)					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		10		Written Test	30
Activities at practicals		20		Practical exam	
Colloquial exams		10		Oral exam	20
Seminars		10			
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				51
Level of studies: second				
Course: Epidemiology of the periodontal disease				
Professor in charge (Name, middle initial letter, surname): Sasha M Jankovic				
Course status (compulsory/elective): elective				
ECTS:6			Year of the study: V, 9 th semester	
Entry requirements(passed exams from the previous years): passed courses from the previous year of study			Course code:ST13EPID	
Objectives of the course: To train the student to perform an epidemiological study in periodontology (study design, epidemiological data, choice of adequate periodontal indices to be measured within the study, epidemiological chart, results interpretation)				
Outcome of the course <ul style="list-style-type: none">- Knowledge of the basic techniques in periodontology- Creation of a specific epidemiological chart- Long term maintenance appropriate documentation on oral hygiene and periodontal status- Knowledge on and application of adequate oral hygiene level- Knowledge on and application of adequate periodontal indices- Knowledge on and application of CPITN index- Results interpretation				
Content of the course Overview of epidemiological studies in periodontology. The knowledge in study design, choice of adequate study to be conducted, as well as the possibilities to perform a research using an epidemiological method. Training in basic statistical skills. Design of periodontal charts and case record forms (CRF). Training in appropriate periodontal indices selection and use. Mandatory program for students during practicals: Epidemiological study design and conduction				
Recommended literature: Lindhe, J. Clinical periodontology and implant dentistry Wiley-Blackwell, 2008. Nyman M, et al. Carranza’s Clinical Periodontology, Elsevier, 2006.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam	points 50	
Activities at lectures	15	Written test		
Activities at practicals	30	Practical exam	50	
Colloquial exams	5	Oral exam		
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				52
Level of studies: second				
Course: Presurgical orthodontics				
Professor in charge (Name, middle initial letter, surname): Ivana V Scepan				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: V, 10 th semester	
Entry requirements(passed exams from the previous years): /			Course code:ST13PROR	
Objectives of the course: Competency in orthognathic-surgical diagnosis, recognition of adequate indications for pre-surgical orthodontics, timely and adequate referral to the orthodontic specialist.				
Outcome of the course Understanding and knowledge: Indications for treatment and ability to comprehensibly inform the patient and parents about the treatment plan, treatment goals and possible complications during treatment; capabilities and limitations of orthodontic treatment; contemporary orthodontic-surgical treatment capabilities; pre-surgical orthodontic treatment principles of different dentofacial deformities. Capability to recognize difficult cases that are beyond general dentist’s competencies. Knowledge of orthodontic-surgical treatment planning on cephalograms, plaster study models, facial photographs; dental complications in cleft lip and palate patients; dental complications in patients with syndromes of the orofacial region.				
Content of the course During the lectures and practicals of this course students will get knowledge and skills about the treatment plan, treatment goals and possible complications in the field of pre-surgical orthodontics				
Recommended literature: Proffit WR, White JR, Sarver DM. Contemporary Treatment of Dentofacial Deformity. 2002, Mosby, St.Louis				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam		points 50
Activities at lectures	4	Written test		50
Activities at practicals	28	Practical exam		
Colloquial exams	18	Oral exam		
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				53	
Level of studies: second					
Course: Computerized dentistry					
Professor in charge (Name, middle initial letter, surname): Aleksandar B. Todorović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: V / 9 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13KOMP		
Objectives of the course: Obtaining theoretical and practical knowledge of computer technology and its applications in dentistry					
Outcome of the course By successful completion of this study program, students should obtain the theoretical knowledge concerning the application of computer technologies in the following areas: management in dentistry, e-learning, expert systems, database, simulations, diagnosis and treatment, computer aided inspection, computer aided design, computer aided manufacturing, computer application in diagnosis and treatment of TMJ disorders, digital photography, digital radiology, computer guided implantology and analysis of the models and images in the diagnosis of malocclusion.					
Content of the course The subject of computerized dentistry is based on the premise that information technology has the potential to help dentistry realize its vision of improving individual and general oral health systematically and consistently. Advances in integration of computer technology, as well as innovations in digital imaging, signal processing, intra- and extra-oral digitalization, data visualization, information and knowledge representation can fundamentally improve therapeutic and diagnostic treatments in dentistry. The lectures cover the application of computers in education, therapy and diagnostics, CAD/CAM technologies, computer guided implantology and also include computer application in orthodontics and endodontics. Practical training involves digital shade matching, computer application in the implant planning, basic functions of CAD/CAM systems, computer simulation of orthodontic treatment plan, digital intra- and extra-oral photo imaging and analysis of digital images.					
Recommended literature: Titus Schleyer, Heiko Spallek, Gisela Spallek: Computing in Dentistry, School of Dental Medicine, University of Pittsburgh. Philippe B. Tardieu, Alan L. Rosenfeld: The Art of Computer - Guided Implantology, Quintessence publishing Co, 2009					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		30		Written Test	50
Activities at practicals		10		Practical exam	
Colloquial exams		10		Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				54	
Level of studies: second					
Course: Maxillofacial Surgery					
Professor in charge (Name, middle initial letter, surname): Miodrag M. Gavrić					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: VI / 11 th & 12 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13MAKS		
Objectives of the course: To familiarise student with basics of diagnosis and treatment of maxillofacial region diseases.					
Outcome of the course To have a qualified student able to process the patient anamnestically and with clinical examination, to set a diagnosis and to be introduced with possibilities of conservative and surgical treatments of maxillofacial region diseases in humans.					
Content of the course During lectures and practical the focus will be on different diseases of rofacial region such as sinusitis, TMJ disesass, infections of odontogenic origin, salivary glands diseases and jaw deformities. Also, traumatology of maxillofacial region: ethiology of injury, diagnostics, classification of injuries of soft and bone tissues is evaluated in details. Tumors of maxillofacial region: Nomenclature, calssification, diagnostics: clinical and additional (biopsy, roentgen, ultrasound, CT, NMR, PET scan)					
Recommended literature: 1. Miloro M, Peterson LJ. Peterson`s principles of oral and maxillofacial surgery. 3 rd ed. Shelton, CT : People's Medical Pub. House-USA, 2012 2. Topazian RG, Goldberg MH, Hupp JR. Oral and Maxillofacial Infections. 4 th ed. Pa: W. B. Saunders, Philadelphia, 2002 . 3. Fonseca RJ et al. Oral and Maxillofacial trauma. 4 th edition. St. Louis, Mo. Elsevier/ Saunders, 2013 4. Ward Booth P, Hausamen JE, Schendel SA. Maxillofacial Surgery. 2 nd ed. St. Louis, Mo. Churchill Livingstone/Elsevier, 2007 5. Reyneke JP. Essentials of orthognathic surgery. 2 nd ed. Chicago: Quintessence, 2010					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 60	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		15		Written Test	
Activities at practicals		30		Practical exam	20
Colloquial exams		5		Oral exam	30
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				55
Level of studies: second				
Course: Otorhinolaryngology				
Professor in charge (Name, middle initial letter, surname): Zoran D Ivankovic				
Course status (compulsory/elective): compulsory				
ECTS: 3			Year of the study: VI/11 th semestar	
Entry requirements(passed exams from the previous years): /			Course code:ST13ORLA	
Objectives of the course: To provide basic skills in diagnosis of the patients with ENT diseases and specific approach to clinical diagnosis of the patients with the dental and ENT pathology for sudents of dental medicine.				
Outcome of the course On completion of the course student should be able to apply basic knowledge of ENT pathology as well as basic diagnostics tools and techniques of ear, nose and troath (ENT) examination.				
Content of the course During the course lectures on different ear, nose and troath diagnostic and therapy procedures will be held. Practicals will include examination of patients for different otorhinolaryngological disorders.				
Recommended literature: 1. ENT in focus. R.Youngs, N Strafford . Elsevier, Church.Livingstone,USA. 2005 2.Lecture notes on diseses of the ear, nose and throath, P.D Bull, Blackwell Science. 1996				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:/	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 60	Final exam		points 40
Activities at lectures	15	Written test		40
Activities at practicals	35	Practical exam		
Colloquial exams	10	Oral exam		
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				56
Level of studies: second				
Course: Forensic medicine and medical law				
Professor in charge (Name, middle initial letter, surname): Dragana Ž Puzović				
Course status (compulsory/elective): compulsory				
ECTS: 3			Year of the study: VI, 11 th semester	
Entry requirements(passed exams from the previous years): /			Course code:ST13FORE	
Objectives of the course: Introduction to the principles of expertise of injuries of the maxillo-facial region. Introduction to the importance of dental records in the process of identification and deontological aspects of dental practice.				
Outcome of the course Introduction to the principles of expertise diagnostic, expertise of injuries of the maxillo-facial region based on proposed findings and dental records. Knowledge of disciplinary and other responsibilities of doctors, criminal responsibility of doctors. Relevance of odontostomatological data in identification and importance of appropriate formulation and management of dental records.				
Content of the course Violent harm to health, expertise diagnostics, expertise of injuries on the basis of medical documentation, significance of odontostomatological data for identification, responsibilities of a doctor for criminal acts. Expertise of injuries of the maxillo-facial region. Discussing the report on expertise of injuries.				
Recommended literature: Oxford handbook of forensic medicine.Wyatt J, Squires T, Norfolk G, Payne-James J. Oxford University Press, 2011.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 60	Final exam	points 40	
Activities at lectures	5	Written test	35	
Activities at practicals	21	Practical exam	5	
Colloquial exams	30	Oral exam		
Seminars				
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				57
Level of studies: second				
Course: Final course I:Restorative dentistry				
Professor in charge (Name, middle initial letter, surname): Branislav V. Karadzic				
Course status (compulsory/elective): compulsory				
ECTS: 7		Year of the study: VI, 12 th semester		
Entry requirements(passed exams from the previous years): passed courses from the previous year of study		Course code:ST13BLO1		
Objectives of the course: A student needs to perceive connection and correlation of all the dental disciplines in a restorative patient treatment, as well as to summarize previously acquired knowledge in these disciplines				
Outcome of the course Following the course and passing the exam, a student is capable to perform the following: <ul style="list-style-type: none">- Overview of patient's total demand on dental treatment and rehabilitation- Dental treatment plan- Multidisciplinary patient treatment in oral surgery, periodontology, restorative dentistry, endodontics and prosthodontics, as trained within the previous courses in former school years Identification of the need for specialist dental interventions and referral for adequate specialist examination and treatment				
Content of the course During the lectures and practicals students will be taught of multidisciplinary dental treatment. Practical teaching in 5 terms: 1 st term: Multidisciplinary patient examination and treatment plan elaboration 2 nd term: Oral surgery 3 rd term: Periodontology and oral medicine 4 th term: Restorative dentistry and endodontics 5 th term: Prosthodontics				
Mandatory program for students during practicals: During the practical work, a student independently performs diagnostic, preventive, prophylactic, and therapeutic principles, under the supervision of his/her menthor. Complete dental patient rehabilitation				
Recommended literature: -Bergenholtz et al. Textbook of Endodontology, 2nd eds, Wiley-Blackwell, Chichester, UK, 2010. -Leif Tronstad. Clinical endodontics-a textbook, 3rd eds, Thieme, NY, USA, 2009. -Pickard's manual of operative dentisty, 9 th eds. Banerjee A, Watson TF,Oxford University Press, UK, 2011. -Lindhe, J. Clinical periodontology and implant dentistry Wiley-Blackwell, 2008. -Nyman M, et al. Carranza's Clinical Periodontology, Elsevier, 2006. -Shilinburg T.: Fundamentals of fixed prosthodontics (fourth ediotion) Quintessence Publishing Co Inc, London 2012 -Rosenstiel SF, Land MF, Fujimoto J. Contemporary Fixed Prosthodontics.. Mosby 2006 -Basker R M & Davenport J C: Prosthetic Treatment of the Edentulous Patient. 4ed,Blackwell Munksgaard,a Blackwell Publishing Company 2002 -Mc Cracken WL. Partial Denture Construction. Mosby Co., 1998. -Wat D. M., Mac Gregor A.R.: Desining partial dentures, Wright. Bristol. 1984 -Becker C. M.,Harrison A., Ralph J. P., Watson C.J.: Overdentures in general dental practice, Brit. Dent. Association, London 3rd. ed 1993. -James R Hupp, Edward Ellis III, Myron R Tucker : „ Contemporary Oral and Maxillofacial Surgery", Mosby, Inc.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 60	Practicals: 60	Other modes of teaching process: colloquial exams, seminars	Study research work: /	180
Methods of teaching process				

Grading of knowledge (maximal number of points 100)			
Pre-exam compulsory activities	points 50	Final exam	points 50
Activities at lectures	10	Written test	50
Activities at practicals	40	Practical exam	
Colloquial exams		Oral exam	
Seminars			
Other			

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				58	
Level of studies: second					
Course: Pediatric dentistry					
Professor in charge (Name, middle initial letter, surname): Zoran R. Vulićević					
Course status (compulsory/elective): compulsory					
ECTS: 4			Year of the study: VI / 12 th semester		
Entry requirements (passed exams from the previous years): Preventive dentistry, Pediatric dentistry, Orthodontics			Course code: ST13BLO2		
Objectives of the course: The aim of the course is to train the student in performing different therapeutic procedures related to preventive and pediatric dentistry, as well as to orthodontics, and in some cases, comprehensive dental treatment. The aim is also to create the attitude towards children and adolescents, expecting to create high standard dental care of children.					
Outcome of the course Upon practical course “Pedodontics” each student should be able to, upon medical history, clinical examination and different diagnostic procedures, make a diagnosis and a treatment plan consisting of preventive, prophylactic and therapeutic measures. Considering the age, the psychological type of the child and dentition present student should be able to provide adequate dental care. Based on the risk assessment for caries and periodontal disease, the student will be capable to take care of the patient, having in mind all preventive and prophylactic measures. Student will have knowledge of specific aspects related to dental caries treatment in primary and permanent dentition, as well as indications for orthodontic therapy. Has understanding and knowledge of diagnostics and treatment principles of complication of caries on primary and permanent dentition, and of indications and contraindications for tooth extraction. Student will be trained to diagnose and manage dental trauma as well as dental trauma complications.					
Content of the course <i>Theoretical studies:</i> During theoretical course students will be taught about: dental management of children and adolescents, diagnostic and therapeutic procedures in primary and permanent dentition, craniofacial growth and development, management of pain and anxiety, prevention of dental caries and oral disease, periodontal diseases in children and traumatic dental injuries. Students will be taught about particularities related to dental care in children and adolescence. Students will be also trained in performing diagnostic, differential diagnostic and therapeutic procedures in pediatric dentistry. Also the lectures and practicals will focus to recognize and formulate the orthodontic problem, the diagnosis and treatment goals and objectives of dentofacial malocclusions encountered in clinical practice,gives the overall general and the specific clinical findings,					
Recommended literature: Paediatric dentistry. Edited by Richard Welbury, Monty S. Duggal, Marie Therese Hosey. Oxford University Press, 2012. Color Atlas of Dental Medicine Orthodontic Diagnosis, Thomas Rakosi, Irmtrud Jonas, Thomas M. Graber					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:	90	
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		10		Written Test	50
Activities at practicals		40		Practical exam	
Colloquial exams				Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				59
Level of studies: second				
Course: Clinical periodontology				
Professor in charge (Name, middle initial letter, surname): Sasha M Jankovic				
Course status (compulsory/elective): compulsory				
ECTS: 3			Year of the study: VI, 11 th semester	
Entry requirements(passed exams from the previous years): passed courses from the previous year of study			Course code:ST13PAR2	
Objectives of the course: -to train the student in complex periodontal treatment plan determination -to train the student to perform a complex periodontal treatment				
Outcome of the course Knowledge of the indications and contraindications in treatment options for scaling and root planning (SRP); - Periodontal pocket treatment by SRP; - Periodontal complications diagnosis and treatment; - Knowledge of the indications and contraindications in basic periodontal surgical techniques application for periodontal pocket elimination and mucogingival anomalies correction; - Assistance and performance of surgical procedures segments; - Occlusal trauma and traumatism diagnosis; - Pre-contact elimination by selective teeth grinding; - Etiological diagnosis of consecutive disease and oral focus diagnosis; - Oral focus elimination treatment plan. Patient preparation for the surgical elimination of oral focus; - Treatment plan for adequate occlusal relationship establishment (prosthodontic, restorative, surgical, orthodontic measures); - Achieved results maintenance; - Application of modified/flexible periodontal treatment plan in case of recidives				
Content of the course Summary of periodontal treatment phases. Knowledge on periodontal complications diagnosis and treatment. Overview of periodontal surgical procedures, including flap surgery, periodontal regeneration, periodontal plastic surgery and pre-prosthetic surgery. Knowledge on role of the occlusal trauma in the course of the periodontal disease. Etiological diagnosis of consecutive disease. Oral focus diagnosis and oral focus elimination treatment plan. Overview of maintenance periodontal treatment phase and application of modified/flexible periodontal treatment plan in case of recidives. Mandatory program for students during practicals: Phase II (Surgical) periodontal treatment – scaling and root planning (treatment outcome evaluation); surgical techniques: Modified Widmann Flap Surgery, regenerative surgical techniques, periodontal plastic surgical techniques (treatment outcome evaluation). Prognosis and treatment plan. Complex periodontal treatment. Treatment outcome evaluation. 2-5 patients (Phase I periodontal treatment); 2 surgical assistances.				
Recommended literature: Lindhe, J. Clinical periodontology and implant dentistry Wiley-Blackwell, 2008. Nyman M, et al. Carranza's Clinical Periodontology, Elsevier, 2006.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work: /	45
Methods of teaching process				

Grading of knowledge (maximal number of points 100)			
Pre-exam compulsory activities	points 50	Final exam	points 50
Activities at lectures	5	Written test	
Activities at practicals	30	Practical exam	20
Colloquial exams	15	Oral exam	30
Seminars			
Other			

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				60	
Level of studies: second					
Course: Implantology					
Professor in charge (Name, middle initial letter, surname): Aleksandar B. Todorović					
Course status (compulsory/elective): compulsory					
ECTS: 10			Year of the study: VI/ 12 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13ORIM		
Objectives of the course: Introduction to basic terms in implantology, materials in implantology, anatomic preconditions, indications and contraindications for implantation, planning pre-operative preparations. Learning the surgical techniques of implant insertion, implant supported crowns and bridges, implant overdentures, intraoperative and postoperative complications, importance of oral hygiene and methods for maintaining the health of peri-implant tissues.					
Outcome of the course After lectures and practical lessons, student will be acquainted with implant system components and materials, basic principles of surgical procedures and implant-supported prosthodontic rehabilitation and potential complications. Capable for performing clinical intra- and extra-oral examination, diagnostic and pre-implantation procedures, classification and treatment planning for partially and completely edentulous arches, postoperative protocols and drugs administration, patient education for proper hygiene techniques.					
Content of the course Lectures address rationale for dental implants and their important role in contemporary dentistry, oseointegration and GBR-guided bone tissue regeneration, 2D and 3D implant treatment planning, implant materials, macro- and micro-design, biomechanics and stress related factors, design and fabrication of overdentures and cement-retained or screw-retained fixed implant prosthodontics. Important topics for lectures are also: surgical and prosthodontic complications, implant survival, etiology and therapy of peri-implantitis, occlusal concepts, biological, functional and esthetic considerations in implantology, implants in orthodontics and maxillofacial prosthodontics. Practical training involves treatment planning, presentation of implant surgery, abutment selection, temporarisation in implantology. Different impression techniques, patient recall and maintenance of dental implants will also be demonstrated					
Recommended literature: Jan Lindhe, Niklaus P. Lang, Thorkild Karring: Clinical Periodontology and Implant Dentistry, Blackwell publishing Co, 2008 Carl E. Misch: Dental Implant Prosthetics, Mosby, 2005					
Total number of classes in active teaching:				Professional practice/ independent work: 30	
Lectures: 30	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		20		Written Test	
Activities at practicals		20		Practical exam	50
Colloquial exams		10		Oral exam	
Seminars					
Other					

Study programme: Integrated studies of dental medicine		61
Level of studies: second		
Course: Graduation diploma exam		
Course status (compulsory/elective):compulsory		
ECTS: 12		Year of the study: VI, 12th semestre
Entry requirements(passed all exams from the study programme: Integrated studies of dental medicine		Course code:ST13ZARA
Objectives of the graduation diploma exam To enable student to design, write and present case reports of conducted procedures with assessment of obtained treatment results.		
Outcomes of the graduation diploma exam On completion of graduation diploma exam student should be able to formulate research or clinical problem, sistematically formulate obtained results in written, actively and critically use scientific literature and design presentation of own research or case report. Student should accept ethical principles in scientific and professional work and publication.		
General content The graduation thesis is a written report of case/cases treated during the following courses: Final course I- Restorative dentistry or Final course II- Pedodontics. The graduation thesis should consist of Title, Introduction, Case /cases report, Discussion and References.		
Method of graduation diploma exam The graduation thesis should be submitted in written form. Three-member committee, which consists of professors from the appropriate dental field, evaluates the graduation thesis. At the proposal of the relevant departments, vice dean for education appoints committees for evaluation of the graduation thesis at the beginning of each academic year.		
Marking:from 5 up to 10 (maximum number of points 100)		

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				62
Level of studies: second				
Course: Restoration of heavily damaged teeth				
Professor in charge (Name, middle initial letter, surname): Slavoljub A Živković				
Course status (compulsory/elective): elective				
ECTS: 6			Year of the study: VI, 11 th semester	
Entry requirements(passed exams from the previous years): /			Course code: ST13REKO	
Objectives of the course: Improving knowledge about diagnosis and terapy of teeth with large defects and gaining skills for their reconstruction.				
Outcome of the course After the course students will be able to diagnose the problem, estimate the severity of tooth fracture, and also make a plan for an adequate restoration with or without additional retention.				
Content of the course Students should learn about etiology and classification of large tooth defects and techniques of restoration with additional retention. It is also important that they learn how to evaluate the outcome of the therapy. Compulsory programme of practical courses includes pin application on a model of anterior and posterior teeth, application of metal and fiberglass reinforced composite posts and reconstruction of coronal part of the tooth (on a model); reconstruction of large tooth defects (clinical work - on vital teeth – 2 teeth); reconstruction of large tooth defects (clinical work – avital teeth – 2 teeth).				
Recommended literature: 6. Textbook of Endodontology , Bergenholtz G, Horsted-Bindslev P, Reit C 7. Wilson NHF, Roulet J-F, Fuzzi M: Advanced in Operated Dentistry – vol 2. Quintenssence Publishing Co. Inc, Chicago – Berlin, 2002 8. Becciani R: Restoration Of The Endodontically Treated Tooth, u: Endodontics, vol III (Castelucci A); Tridente, Florance, Italy, 2009.				
Total number of classes in active teaching:				Professional practice/ independent work: /
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work: /	
Methods of teaching process				
Grading of knowledge (maximal number of points 100)				
Pre-exam compulsory activities	points 50	Final exam	points 50	
Activities at lectures	6	Written test	20	
Activities at practicals	30	Practical exam	30	
Colloquial exams	12	Oral exam		
Seminars	2			
Other				

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				63	
Level of studies: second					
Course: Urgent dental care					
Professor in charge (Name, middle initial letter, surname): Ljiljana G Stojčev Stajčić					
Course status (compulsory/elective): compulsory					
ECTS: 6			Year of the study: VI/ 11 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13URGE		
Objectives of the course: In the course of teaching, students will be exposed to diferential diagnosis of medical emergencies in dentistry. During the practical excercises, sudents will be presented first aid techniques					
Outcome of the course Upon completion of the course and passed exam, students should be able to recognize medical emergencies an apply appropriate first aid technique as well as to assist medical doctor in its management					
Content of the course Students will gain knowledge on the management of maxillofacial injuries, teeth injuries, intraoperative and postoperative treatment of bleeding in oral surgical procedures, management of acute infections of oral region, teeth, jaws and the soft tissues. Orofacial pain, unconscious conditions, local and systemic allergic reactions, cardiovascular and respiratory emergencies, hypoglycemic schock, an acute adrenal crisis will also be dealt with. Dental emergencies in prosthodontics, periodontics, pedodontics and orthodontics will be presented. Students will gain skills and clinical experience in management of medical and dental emergencies, anti-schock measures, maintenance of the patency of breathing routs and resuscitation.					
Recommended literature: Malamed F Stanley: Medical emergencies in the dental office, Elsevier health science, 2007					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		15		Written Test	50
Activities at practicals		15		Practical exam	
Colloquial exams		35		Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				64	
Level of studies: second					
Course: Fixed orthodontics					
Professor in charge (Name, middle initial letter, surname): Ljiljana S Stojanović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: VI/ 11 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13FIOR		
Objectives of the course: Though comprehensive diagnosis and treatment planning gives the effective fixed appliances orthodontic treatment and clear understanding of the fundamental biomechanical principles behind orthodontic force that allows designing the fixed appliances and systems.					
Outcome of the course The student will be competent to set a diagnosis and understand fundamentals of biomechanic in orthodontics appliance.					
Content of the course introduces students the evolution of fixed orthodontic technology and the properties of orthodontic materials and outlines the essential mechanical principles behind successful fixed appliances orthodontic treatment, also, it presents a concise approach to recognize and to formulate the orthodontic problem, the diagnosis and treatment goals and objectives of dentofacial malocclusions encountered in clinical practice,gives the overall general and the specific clinical findings, which serve as the foundation of treatment decisions,recommends treatment approaches for specific problems, andpresents the major steps to achieve pleasing facial and dental aesthetics, normal dental health, and stability of the dentition and the jaws.					
Recommended literature: Color Atlas of Dental Medicine Orthodontic Diagnosis, Thomas Rakosi, Irmtrud Jonas, Thomas M. Graber					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 15	Practicals: 30	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 50 points		Final exam 50 points	
Activities at lectures		5		Written Test	50
Activities at practicals		25		Practical exam	
Colloquial exams		20		Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				65	
Level of studies: second					
Course: Radiology					
Professor in charge (Name, middle initial letter, surname): Zoran B. Rakočević					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: IV / 11 th semester		
Entry requirements (passed exams from the previous years):			Course code: ST13RADI		
Objectives of the course: The aim of Radiology course is to introduce students to a variety of modern imaging techniques used in the diagnosis of diseases of the maxillofacial region, such as computed tomography (CT), ultrasonography, and magnetic resonance imaging (MRI). Students will also acquire knowledge about the principles of image aquisition and image analysis, as well as the principles of the patient protection from radiation during radiological examination. The course also aims to teach students the basic principles of radiotherapy, and the importance of this type of treatment of the cancer in the maxillofacial region					
Outcome of the course Acquiring the knowledge about the principles of the radiological examination by modern imaging techniques, students (based on the findings of the clinical examination) will be able to choose and refer the patient to the appropriate radiological examination in order to make rapid and reliable diagnosis.					
Content of the course Radiology course is organized through lectures, tutorials and labs that allows students to be introduced to principles of radiological examination using modern imaging techniques. Students also learn how to choose an optimal radiological examination for the patient in order to make rapid and reliable diagnosis of diseases of the maxilofacial region. Students also acquire knowledge about the principles of image analysis and interpretation, as well as the principles of the patient protection from radiation during radiological examination. During the course students are introduced to the basic principles of radiotherapy, and the importance of this type of treatment of the cancer in the maxillofacial region.					
Recommended literature: C Peter-Adler: Bone diseases. Macroscopic, Histological, and Radiological Diagnosis of structural changes in the Skeleton. Springer, 2000. S Curtin. Haed and Neck Imaging. Mosby, 2002. Langalis, Langlang and Nortie: Diagnostic Imaging of the jaws, Baltimore, Williams and Vilkins, 1995					
Total number of classes in active teaching:				Professional practice/ independent work:	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		Total 60 points		Final exam 40 points	
Activities at lectures		15		Written Test	35
Activities at practicals		15		Practical exam	5
Colloquial exams		30		Oral exam	
Seminars					
Other					

Table 5.2 Subject study specification

Study programme: Integrated studies of dental medicine				66	
Level of studies: second					
Course: Patients rights and doctors responsibilities					
Professor in charge (Name, middle initial letter, surname): Dragana Ž Puzović					
Course status (compulsory/elective): elective					
ECTS: 6			Year of the study: VI, 11 th semester		
Entry requirements(passed exams from the previous years): /			Course code:ST13PPOD		
Objectives of the course: Introduction to the rights and obligations of a doctor of dental medicine, the aspects of criminal responsibility of dentists and rights and obligations of patients.					
Outcome of the course Knowledge of rights and obligations of a doctor of of dental medicine and patients in our country. Knowledge of the aspects of criminal responsibility of dentists.					
Content of the course Patient's agreement and responsibilities of doctors. Responsibility of medical staff members, ethical principles of the medical profession. Patient's agreement to a medical intervention. Legal concept of human death, euthanasia. Discussing the report on medical expertise of negligent treatment of a patient and malpractice in dentistry.					
Recommended literature: Oxford handbook of forensic medicine.Wyatt J, Squires T, Norfolk G, Payne-James J. Oxford University Press, 2011.					
Total number of classes in active teaching:				Professional practice/ independent work: /	
Lectures: 30	Practicals: 15	Other modes of teaching process: colloquial exams, seminars	Study research work:/		
Methods of teaching process					
Grading of knowledge (maximal number of points 100)					
Pre-exam compulsory activities		points 60	Final exam		points 40
Activities at lectures		5	Written test		40
Activities at practicals		21	Practical exam		
Colloquial exams		30	Oral exam		
Seminars		4			
Other					