

1	Subject	Pediatric dentistry 2			
2	Code	DDS506			
3	Study Program	Study Program of Integrated studies in dental medicine			
4	Organizing Institution (Unit, Institute, Chair, Department)	Department of Pediatric and Preventive Dentistry			
5	Educational degree (first or second cycle)	Integrated study			
6	Study year/semester	5 / 9 and 10	7	Number of credits	8
8	Teacher	Prof.dr. Elizabeta Gjorgievska, Prof.dr. Mira Jankulovska, Prof.dr. Marija Stevanovic, Prof. dr. Zlatko Georgiev, Prof. Dr. Ana sotirovska – Ivkovska, Prof. Dr. Aleksandar Dimkov, Prof. Dr. Meri Pavlevska			
9	Preconditions	Passed all compulsory courses of 5 and 6 semester. Signatures of 7 and 8 semester courses			
10	Teaching goals: Upon the completion of the theoretical classes and the practical exercises, and upon passing the exam, the student should be able to make an examination and assessment of the patient's psychological type and to determine the treatment plan; to have knowledge of the orofacial region growth and development, of primary and permanent dentition chronology, to diagnose and to treat teeth anomalies; to diagnose and to treat dental caries in primary and permanent teeth; to diagnose and treat pulp and periodontal tissues diseases, soft tissues diseases, as well as the complications caused by general, nutritive and metabolic disorders; to know how to select and apply adequate dental material according to indications; to plan and to achieve oral surgical interventions in children; to diagnose and to treat dental trauma and complications of trauma in children; to plan and achieve aesthetic procedures and prosthetic interventions in children.				
11	Brief content				
	Theoretical course				Class
	Therapy of pulp diseases in immature permanent teeth.				2
	Dental materials in pediatric dentistry: cavity disinfectants, temporary filling materials, bases, liners, materials for root canal obturation, restorative dental materials (composites, glass ionomer cements, hybrid materials).				2
	Esthetics in pediatric dentistry: dental veneers, laminates, tooth bleaching.				1
	Laser use in pediatric dentistry: cavity preparation for composites and fissure sealants, application of laser in endodontics, oral surgery treatments, LLLT, tooth bleaching.				1
	Soft tissue diseases in oral cavity: oral mucosal lesions (mechanical, thermal, chemical, radiations); lips diseases: Cheilitis exfoliativa, Cheilitis angularis, Cheilitis glandularis, Melkersson Rosenthal syndrome, Ascher syndrome, morphological variations; tongue diseases: Lingua geographica, Lingua villosa nigra, congenital disorders (Lingua plicata, Glossitis rhombica mediana, Macroglossia, Microglossia, Aglossia, Lingua bifida, Ankyloglossia).				3
	Gingival diseases: Gingivitis cattharalis, Gingivitis hyperplastica, Gingivitis fibromatosa, Gingivitis ulcero-necroticans, teeth growth gingivitis, Pericoronitis); periodontal diseases: etiology, classification, treatment modalities.				2
	Oral manifestations of infectious diseases: bacterial, viral and fungal infections; oral manifestations of systemic diseases: haematological diseases (blood cell disorders), skin, cardiovascular, respiratory, endocrine, renal and gastrointestinal diseases; immune system disorders, autoimmune diseases; metabolic disorders, nutritional disorders, lack of proteins, calcium, phosphorus, magnesium, microelements and vitamins deficiency.				3
	Traumatic dental and supporting tissues injuries in children: epidemiology, etiology, treatment procedure – history, clinical and paraclinical examination, diagnosis, classification.				2
	Treatment of dental and supporting tissues injuries in children.				2
	Complications following traumatic dental and supporting tissues injuries in children.				1
	Cysts and tumors in pediatric dentistry.				2

Pedoprosthesis rehabilitation; interceptive orthodontics.	2
Oral surgical procedures in children: extraction of primary and permanent teeth, indications and contraindications, instruments, methodology, complications during and after the extraction, specific oral surgical procedures in children.	2
Odontogenic infections in children: etiology, diagnosis, types, therapy.	1
Antibiotics and other antimicrobial drugs in pediatric dentistry: types, dosage and application modalities, prophylactic administration of antibiotics.	2
Emergency conditions: allergic reactions, collapse, hysterical attack, epileptic seizure, obstruction of the airway, hypo and hyperglycemia and hypo and hyper ventilation syndrome.	2
Total	45
Practical lessons:	Class
Dental materials in pediatric dentistry: cavity disinfectants, temporary filling materials, bases, liners, materials for root canal obturation, restorative dental materials (composites, glass ionomer cements, hybrid materials).	2
Operative procedures in pediatric endodontics in deciduous teeth.	2
Operative procedures in pediatric endodontics in permanent teeth.	2
Operative procedures in pediatric endodontics in young immature teeth.	2
Esthetics in pediatric dentistry: dental veneers, laminates, tooth bleaching.	2
Laser use in pediatric dentistry: cavity preparation for composites and fissure, sealants, application of laser in endodontics, oral surgery treatments, LLLT, tooth bleaching.	2
Treatment of soft tissue diseases in the oral cavity: oral mucosal lesions (mechanical, thermal, chemical, radiations).	2
Lips diseases treatment: Cheilitis exfoliativa, Cheilitis angularis, Cheilitis glandularis, Melkersson Rosenthal syndrome, Ascher syndrome, morphological variations.	2
Tongue diseases treatment: Lingua geographica, Lingua villosa nigra, congenital disorders (Lingua plicata, Glossitis rhombica mediana, Macroglossia, Microglossia, Aglossia, Lingua bifida, Ankyloglossia).	2
Gingival diseases treatment: Gingivitis cattharalis, Gingivitis hyperplastica, Gingivitis fibromatosa, Gingivitis ulcero-necroticans, teeth growth gingivitis, Pericoronitis)	2
Periodontal diseases treatment: etiology, classification, treatment modalities.	2
Treatment of oral manifestations of infectious diseases: bacterial, viral and fungal infections.	2
Treatment of oral manifestations of systemic diseases: haematological diseases (blood cell disorders), skin, cardiovascular, respiratory, endocrine, renal and gastrointestinal diseases.	2
Treatment of immune system disorders and autoimmune diseases.	1
Treatment procedure in metabolic disorders patients.	1
Treatment procedure in children with nutritional disorders, lack of proteins, calcium, phosphorus, magnesium, microelements and vitamins deficiency.	1
Dental procedures of traumatic injuries to the teeth and to the supporting tissues in children: epidemiology, etiology, treatment procedure – history, clinical and paraclinical examination, diagnosis, classification.	2
Therapeutic procedures of traumatic injuries to the teeth and to the supporting tissues.	2
Treatment of complications following traumatic dental and supporting tissues injuries.	1
Therapeutic options in the treatment of cysts and tumors in pediatric dentistry.	1
Pedoprosthesis rehabilitation (primary, mixed and permanent dentition).	1
Oral surgical procedures in children: extraction of primary and permanent teeth, indications and contraindications, instruments, methodology, complications during and after the extraction, specific	2

	oral surgical procedures in children.			
	Treatment of post-operative bleeding following oral surgery .		1	
	Therapy of odontogenic infections in children.		2	
	Prescription of antibiotics and other antimicrobial drugs in pediatric dentistry: types, dosage and application modalities, combinations, prophylactic administration of antibiotics.		1	
	Treatment during emergency conditions: allergic reactions, collapse, hysterical attack, epileptic seizure, obstruction of the airway, hypo and hyperglycemia and hypo and hyper ventilation syndrome.		2	
	Interceptive orthodontics procedures.		1	
	Total		75	
12	Methods of studying: class room oriented lectures, interactive lectures, group work, practical training, seminar paper			
13	Total available time	240 classes		
14	Organization of the course	45 classes - theoretical course, 75 classes- practical course, 120 classes - home individual learning and other activities		
15	Forms of teaching activities	15.1.	Theoretical course	45 classes
		15.2.	Practical course, seminars	Practical course - 75 classes
16	Other forms of activities	16.1.	Project tasks	
		16.2.	Individual tasks	
		16.3.	Individual (home) learning	120 classes
17	Method of assessment	17.1.	Tests	30 points
		17.2.	Active participation, seminar paper/project (oral/written presentation)	10 points
		17.3.	Final (oral) exam	60 points
18	Grading criteria (points / grade)	Up to 59 points		5 (five) (F)
		from 60 to 67 points		6 (six) (E)
		from 68 to 75 points		7 (seven) (D)
		from 76 to 84 points		8 (eight) (C)
		from 85 to 93 points		9 (nine) (B)
		from 94 to 100 points		10 (ten) (A)
19	Requirement for signature and taking the final exam	<p>The student is required to actively follow all of the planned activities.</p> <p>Conditional criteria for assessment of knowledge:</p> <p>In order to get a signature, the student should obtain minimum points in both theoretical and practical courses, and to present seminar paper;</p> <p>In order to take the final exam, the student should obtain the minimum points from activity and test;</p> <p>If the student has not obtained the minimum points in the continual assessments, he/she in next exam session will have paper part of the exam (40 points) and final exam (60 points)</p>		
20	Language of the course	English		
21	Method for evaluation of the quality of education	Anonymous student's evaluation of the subject, teachers and collaborators involved in the educational activities		

22	Literature					
	22.1.	Mandatory textbooks				
		No.	Author	Title	Publisher	Year
		1	McDonald R, Avery D	Dentistry for the Child and Adolescent	Mosby, 7 ed	1999.
	22.2.	Additional literature				
		No.	Author	Title	Publisher	Year
		1	Beloica D i sar.	Dečja stomatologija	Elit-Medica Beograd,	2000.
2		Bajraktarova B, Bajraktarova- Valkakova E, Bajraktarova- Mishevaska C	Anomalii na zabite	NUB Skopje	2011	