Attachment No. 3		Course program for the first cycle of studies				
1.	Course title	Clinical Practice 1 - Pediatric dentistry (5 ECTS) - Orthodontics (5 ECTS)				
2.	Code	DMMP16				
3.	Study program	Dentistry - integrated first and second cycle of studies				
4.	Organizer of the study program (unit, i.e., institute, department, division)	UKIM - Faculty of Dentistry – Skopje, Department of Pediatric and Preventive dentistry and Department of Orthodontics				
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies				
6.	Academic year/semester	Year	6	Semester	11	
7	Course workload expressed in ECTS credits	10				
8.	Teacher (in case of multiple teachers, designated teacher in charge)	Prof. Dr. Meri Pavlevska Prof. Dr. Gabriela Kjurchieva Chuchkova				
9.	Language in which the curriculum is conducted	English				

10.	Necessary prerequisites for taking and passing the course	Completed all compulsory subjects from the fifth year and passed all compulsory subjects from the fourth year.
11.	Course objectives (competences) and learning outcomes:	After attending theoretical classes, passing the colloquiums and held practical exercises, the student should: be able to perform an examination, assess the psychological type of the patient and determine a treatment plan; know the growth and development in the orofacial region, know the chronology of dentition in children, and diagnose orthodontic irregularities of the orofacial system; diagnose and treat caries in primary and permanent teeth; diagnose and treat diseases of the pulp and periodontal, soft tissues in the mouth, know how to select and apply adequate dental material in accordance with the indication; plan and perform oral surgical interventions in children; diagnose and treat trauma and complications of trauma in children; plan and perform aesthetic procedures in children. The student should be ready to practice interdisciplinary cooperation with the interrelated different dental fields during the care of the patient in a dental office. - Objectives of the Course Program Orthodontics (Competences): Introducing students to methods used to secure optimal conditions to develop normal occlusion, ranging from pregnancy to the development of permanent dentition. Early diagnosis of the possible development of orthodontic abnormalities and taking interceptive measures to prevent further development of orthodontic irregularimnlties.
12.	Detailed course content by chapters and units, with learning outcomes for each chapter	Theoretical teaching – lectures 1. Chapter - Department of Pediatric and Preventive Dentistry (8 classes) - Admission of a child in a dental office of dental work with children (division of children into age groups and by behavior, working with non-cooperating children, determining individual caries profile (Activity) and predisposition to orthodontic irregularities and other oral diseases, caries risk, medical and photo documentation - 2 classes Primary teeth - features, chronology of sprouting, diagnosis and therapy of dental caries of milk teeth and complications (endodontic treatment), early childhood caries (etiology, prevention and therapy) - 1 class Young permanent teeth - characteristics, diagnosis, and therapy of caries and endodontic treatment of young permanent teeth. - 1 class Traumatic tooth injuries and supporting tissues - division of traumatic injuries, diagnosis, RTG findings, first aid, and therapy. - 2 classes Oral-surgical interventions in childhood - 1 class Materials in pediatric dentistry: agents for cavity cleaning, materials for temporary cavity sealing, bases, liners, materials for definitive root canal obturation, restorative materials (composites, glass ionomer cements, hybrid materials) - 1 class Chapter 1 Learning outcomes: Students acquire theoretical knowledge of working with children, assessing the individual caries profile and applying preventive measures, treating caries and complications of primary caries, treating caries and complications of young permanent and permanent teeth, Extraction of primary and permanent teeth, and materials applied to Pediatric dentistry. Practical teaching - exercises After passing the entrance colloquium, during the semester, under the supervision of Teacher in charges, the students are obligated to complete a complete remediation of teeth and soft diseases of at least two patients (preferably with mixed dentition) and to prepare medical and photo documentation for the work, which represents a condition for getting a signature. 2. Chapter-Department for Orthodontics (7 classes): - Prevention of orthodontic irregularities in the prenatal period - Prevention of orthodontic irregularities in the period of infancy - Prevention of orthodontic anomalies in the period of early primary dentition, preventive myofunctional measures - Interceptive orthodontics, early treatment of irregularities in sagittal and vertical planes: vestibular plate, myofunctional exercises, inclined plane, tongue depressor exercise - Early orthodontic treatment of irregularities in the transversal plane: selective grinding

		- Interceptive orthodontics of primary crowding, serial extraction - Interceptive orthodontics of secondary crowding, space maintainers Chapter 2 learning results: The students acquire theoretical knowledge of applying measures at different times of active growth and development of dentition that will contribute to the prevention of orthodontic irregularities. They will be introduced to how they will educate parents about their children's oral health care, the application of myofunctional exercises, the timely removal of bad habits, and improperly performing orofacial functions. They will get acquainted with the types of orthodontic aids for an early interceptive treatment. Practical teaching - exercises After passing the entrance colloquium, during the semester, under the supervision of the teacher in charge, the students are obligated to make interceptive orthodontic aids in at least two patients in an early mixed dentition, and to prepare a complete orthodontic documentation for the developmental anomaly. To apply myofunctional exercises, selective grinding, space maintainer, and inclined plane. Theoretical instruction- lectures - from the first chapter 8 classes - From the second chapter 7 classes etc. Total: .....15 classes Practical teaching - exercises - from the first chapter 120 classes - From the second chapter 120 instruction etc. Total.....240 classes			
13	Interrelation of subjects	The course is interrelated to the basic medical courses and the courses of the preclinical dentistry, as well as the courses of pediatric and preventive dentistry and orthodontics.			
14.	Detailed description of the teaching and working methods for the subject	Interactive instruction, exercises, demonstration of clinical cases, practical work with patients under supervision.			
15.	Total available time	300 classes			
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching classes	15 classes	
		16.2.	Exercises (laboratory, auditorium), seminars, teamwork: classes	240 classes	
		16.3.	Practice: classes		
17.	Other forms of activities	17.1.	Project assignments: classes		
		17.2.	Independent assignments: classes	30	
		17.3.	Home study - assignments	15	
18	Signature requirements				
19	Grading method				
	19.1.	Tests: points		30	
	19.2.	Seminar paper/project, written and oral presentation: points		70	
	19.3.	Final exam: points			
20	Grading criteria (points/grade)		up to 59 points	5 (five) (F)	
			from 60 to 68 points	6 (six) (E)	
			from 69 to 76 points	7 (seven) (D)	
			from 77 to 84 points	8 (eight) (C)	
			from 85 to 92 points	9 (nine) (B)	
			from 93 to 100 points	10 (ten) (A)	
21.	Method of monitoring the quality of instruction	Self-evaluation by students, control by assistants in carrying out practical instruction and assessment of the students' success, as well as the pass rate of students who have passed the course			
22.	Literature				
	22.1.	Required literature			
		Ord. No.	Author	Title	Publisher	Year

		1.	Marija Stevanovikj, Mira Jankulovska, John Nicholson, Elizabeta Gjorgievska (editor), Ana Sotirovska-Ivkovska, Zlatko Georgiev, Dejan Markovikj, Aleksandar Dimkov, Meri Pavlevska, Alberto Benedeti, Dragani Tamara Perikj, Bojan Petrovic, Vesna Amarkova, Olga Kokocheva-Ivanovska, Jasna Simonoska	Pediatric dentistry	Ars Lamina	2022
		2.	Beloica D et al.	Pediatric Dentistry	Elit-Medica Beograd	2000
		3.	Vulovic M et al.	Preventive Dentistry	Faculty of Dentistry, Belgrade	2000
		4.	Gabriela Kjurchieva Chuchkova	Orthodontics for Doctors of dentistry (Part one)	Faculty of Dentistry UKIM, Skopje	2023
		5.	Lidija Kanururkova	Orthodontics for Doctors of dentistry (Part two)	Faculty of Dentistry, UKIM, Skopje	2022
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Bajraktarova B, Bajraktarova-Valjakova E, Bajraktarova-Mishevska C.	Anomalies of the teeth	NUB Skopje	2011
		2.	McDonald R, Avery D	Dentistry for the Child and Adolescent	Mosby, 7 ed	1999
		3.	Aliakbar Bahreman	Early Age Orthodontic Treatment	1st Edition Quintessence Publishing	2013
		4.	Laura Mitchell	An Introduction in Orthodontics	4thEditionOxford University Press	2013