Attachment No. 3		Course program for the first cycle of studies			
1.	Course title	Dental traumatology			
2.	Code	DMEDT5			
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			
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies			
6.	Academic year/semester	Year	5	Semester	10
7	Course workload expressed in ECTS credits	2			
8.	Teacher (in case of multiple teachers, designated teacher in charge)	Prof. Dr. Zlatko Georgiev Prof. Dr. Ana Sotirovska Ivkovska			
9.	Language in which the curriculum is conducted	English			
10.	Necessary prerequisites for taking and passing the course	None			
11.	Course objectives (competences) and learning outcomes:	Objectives of the course program (competences): after attending theoretical classes and passing the exam, the students learn and develop skills: - are introduced to the characteristics of trauma, - etiology and epidemiology of injuries to the teeth, supporting tissues, bones, and soft tissues, - are introduced to the classification of injuries in the orofacial area and the protocol for recording, - provide first aid and treatment of injuries, - recognize the complications that can occur as a result of injuries to the teeth and supporting tissues, and their treatment			
12.	Detailed course content by chapters and units, with learning outcomes for each chapter	Course content: 1. Dental injuries .....1 - classification - etiology and epidemiology of dental injuries, - care of dental injuries, - predisposing factors, - prevention of dental injuries Results: Students acquire basic knowledge about injuries to teeth and supporting tissues, how they occur, in what conditions, what the most common injuries are, and which teeth are affected. Certain predisposing factors can influence the more			

		frequent occurrence of trauma, and what protective measures should be taken to prevent injuries. 2. Follow-up and diagnosis of injured teeth…….. 1 - clinical examination, - history of the injury, - radiological follow-up, - therapeutic approach, - post-traumatic follow-up and prognosis Results: Students learn about the treatment of injuries to dental structures as emergency injuries, by taking a complete history of when, where and how the injury occurred. They are trained on how to perform a clinical examination which must be accompanied by radiological follow-up and further follow-up of the injured teeth. Course content: 1. Dental injuries .....1 - classification - etiology and epidemiology of dental injuries, - care of dental injuries, - predisposing factors, - prevention of dental injuries Outcomes: Students acquire basic knowledge about injuries to teeth and supporting tissues, how they occur, in what conditions, what are the most common injuries and which teeth are affected. Certain predisposing factors can influence the more frequent occurrence of trauma and what protective measures should be taken to prevent injuries. 2. Follow-up and diagnosis of injured teeth…….. 1 - clinical examination, - history of the injury, - radiological follow-up, - therapeutic approach, - post-traumatic follow-up and prognosis Outcomes: Students learn about the treatment of injuries to dental structures as emergency injuries, by taking a complete history of when, where and how the injury occurred. They are trained on how to perform a clinical examination which must be accompanied by radiological follow-up and further follow-up of the injured teeth. 3. Dental crown fractures..... 2 - enamel infraction, - enamel fracture, - enamel and dentin fracture without exposed pulp, - enamel and dentin fracture with exposed pulp Outcomes: Students acquire basic knowledge about dental crown injuries, in which the damage can range from enamel cracking to a greater deficiency of hard dental substances with opening of the pulp chamber, and how they should be treated. 4. Crown and root fractures, root fractures..... 2 - etiology, - classification, - clinical findings, - therapy, - post-traumatic follow-up and prognosis Outcomes: Students learn about crown and root injuries, and root injuries that involve multiple tissues, how they are clinically diagnosed, and what the therapeutic approach is for their treatment and follow-up. 5. Injuries to the supporting apparatus of the teeth.....2 - concussion, - subluxation, - extrusive luxation, - lateral luxation, - intrusive luxation, - avulsion Outcomes: The students are introduced to injuries to the supporting tissues of the

		teeth. They are trained to perform clinical and radiological examinations, to make a diagnosis, and to implement appropriate treatment according to the type of injury and how to place a wire composite splint. 6. Traumatic injuries to primary teeth 2 - etiology, frequency, - fractures of primary teeth (crown fractures, coronal-root fractures, and root fractures) - injuries to the supporting tissues of primary teeth (concussion, subluxation, extrusion, lateral luxation, intrusion, avulsion) - post-traumatic follow-up and prognosis Outcomes: The students are introduced to traumatic injuries to primary teeth that lead to fracture or dislocation of the tooth. They are introduced to the specific characteristics of the injuries and how they should be treated in the primary dentition. 7. Complications of traumatic injuries to teeth and supporting tissues..... 2 - complications of traumatic injuries to primary teeth - complications of traumatic injuries to permanent teeth - consequences on permanent teeth after trauma to primary teeth Outcomes: The students are introduced to the complications that can occur as a result of traumatic injuries to primary and permanent teeth, such as loss of vitality, pulp obliteration, root resorption, and premature tooth loss. They are introduced to injuries to primary teeth and what consequences this can have on the permanent tooth germ. 8. Aesthetic restoration of injured teeth ……..2 - restoration by connecting the fractured fragment - restorations with composite - laminate veneers Outcomes: The students are introduced to the methods, techniques, and materials with which aesthetic disorders of the anterior teeth can be corrected. They are introduced to the procedure for connecting the fractured fragment if brought by the patient, and how to make a composite superstructure to restore aesthetics in the frontal area. 9. Prevention of traumatic injuries to the mouth and teeth, medical documentation, and legal qualification of traumatic injuries..... 1 Outcomes: The students are introduced to the preventive measures that can prevent injuries, such as a mouth guard when playing sports, a helmet for motorcycle riders, airbags in cars. Students are introduced to how to educate other professionals on how to deal with dental injuries. They should be able to classify dental injuries according to the severity of the injury.		
13	Interrelation of subjects	Interrelation with Pediatric dentistry		
14.	Detailed description of the teaching and working methods for the subject	Interactive instruction, clinical examination, diagnosis, X-ray examination, advice on nutrition and hygiene, repair of crown injuries, treatment of dental pulp during its opening, therapy of coronal-root fractures and root fractures, therapy of injuries to the supporting tissues of the teeth, placement of a wire composite splint, gluing of a fragment, therapy of traumatic injuries to primary teeth and complications of traumatic injuries, aesthetic restoration of injured teeth.		
15.	Total available time	60 classes		
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching classes	15 classes
		16.2.	Exercises (laboratory, auditorium), seminars, teamwork: classes	15 classes
		16.3.	Practice: classes	
17.	Other forms of activities	17.1.	Project assignments: classes	
		17.2.	Independent assignments: classes	
		17.3.	Home study – assignments	30 classes
18	Signature requirements	60% of the points envisaged for lectures and exercises		
19	Grading method			
	19.1.	Tests: points		30
	19.2.	Seminar paper/project, written and oral presentation: points		10

	19.3.	Final exam: points		60	
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, 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.	Gjorgievska E. et al.	Pediatric dentistry	Ars Lamina,	2022
		2.	Bajraktarova B.	Dental Traumatology	Scan Point, Skopje	2006
		3.	Beloica D. Vulovikj M. Dugal M.	Teeth injuries	Faculty of Dentistry, University in Belgrade	2007
		4.	D. Markovikj et al.	Teeht injuries – Guide for everyday clinical practice	Faculty of Dentistry, Iniversity in Belgrade	2012
	22.2.	Additional literature			
		Ord. No.	Author	Title	Publisher	Year
		1.	Jens O. Andreasen, Leif K. Bakland, MariaTeresa Flores, Frances M. Andreasen, Lars Andersson	Traumatic Dental Injuries: A Manual, 3rd Edition	Wiley-Blackwell	2011