Attachment No. 3		Course program of the first cycle of studies			
1.	Course title	Oral Surgery 1			
2.	Code	DMMOS4			
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 Oral Surgery			
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies			
6.	Academic year/semester	Year	4	Semester	7 and 8
7	Course workload expressed in ECTS credits	8			
8.	Teacher	Teacher in charge: Prof. Dr. Gordana Apostolova *Teaching is conducted by all teachers from the department			
9.	Language in which the curriculum is conducted	English			
10.	Necessary prerequisites for taking and passing the course	To have completed all compulsory subjects from the third year and have passed all compulsory subjects from the second year			
11.	Course objectives (competences) and learning outcomes:	The student will acquire skills in taking an oral surgical history, performing a clinical examination, making a diagnosis for tooth extraction, anesthetizing the area with local anesthesia, and performing tooth extraction in an outpatient setting. The student should recognize oral surgical instruments, as well as complications that may occur during the anesthesia and tooth extraction procedures.			
12.	Detailed course content by chapters and units, with learning outcomes for each chapter	Theoretical teaching – lectures 1. Chapter: Introduction to Oral Surgery - Applied anatomy of the orofacial region from an oral surgical aspect……2 classes - Anamnesis and clinical examination of a patient for oral surgical intervention.....1 class - Pathophysiological mechanisms of pain from an oral surgical aspect..1 class - Principles of asepsis and antisepsis ..... 1 class Results from chapter 1: the student refreshes his knowledge of anatomy, anamnesis, and asepsis acquired in the previous semesters. 2. Chapter: Local anesthesia - Local anesthetics and local infiltrative anesthesia .....1 class - Plexus anesthesia in the upper and lower jaw .....2 classes - Conduction (block) anesthesia in the upper jaw ……1 class - Conduction (block) anesthesia in the lower jaw ……..1 class - Local and general complications when performing local anesthesia.....2 classes Results from chapter 2.- The student will be introduced to different types of anesthetics, techniques of local anesthesia in the maxillofacial region, as well as possible complications when performing local anesthesia. 3. Chapter: Tooth Extraction - Instruments for extraction in the upper and lower jaw and oral surgical instruments .....2 classes - Principles of exodontia and typical extractions in the upper and lower jaw .....2 classes - Atypical extractions in the upper and lower jaw and principles of healing of the extraction wound …… 2 classes - Complications during and after tooth extraction ……. 2 classes Results from chapter 3.- The student will be familiar with the instruments for oral surgical interventions, the stages of tooth extraction, atypical extractions, and complications of tooth extractions.			

		4. Chapter: Tooth extraction in patients at risk - Hemostasis and diseases with hemorrhagic syndrome from an oral surgical aspect ……..…. 2 classes - Tooth extraction in patients with cardiovascular, endocrinological, and respiratory diseases.....2 classes - Tooth extraction in patients with neurological, renal, and hepatic diseases, radio osteonecrosis……2 classes - Tooth extraction in patients receiving immunosuppressive therapy ....1 class - Basic principles in surgery ……....1 class Results from chapter 4.- The student will be familiar with all internal diseases that carry a risk of complications during oral surgical interventions, as well as with the basic principles of surgery. - Colloquium 1 .....2 classes 5. Chapter: Infections in the orofacial region - Acute odontogenic infection, pathophysiological characteristics, clinical forms, and antibiotic therapy .....2 classes - Metastatic infection and antibiotic prophylaxis.....2 classes - Chronic periapical processes ……....2 classes - Therapeutic procedures of chronic periapical processes ……...2 classes Results from chapter 5.- The student will learn about acute and chronic infections in the orofacial region, as well as the possibilities for conservative and surgical therapy. 6. Chapter: Diagnostic and therapeutic procedures in oral surgery - Impacted teeth etiology, diagnosis, and therapy .....2 classes - Radiological diagnostics in oral surgery…….....2 classes - Prevention and treatment of emergency conditions …….2 classes - Colloquium 2 .....1 class Results from chapter 6.- The student will learn about impacted teeth as one of the most common oral surgical problems, as well as about different types of preventive, diagnostic, and therapeutic procedures in everyday oral surgical practice. Total: ..... 45 classes Practical teaching-exercises Introduction to oral surgery, asepsis, and antisepsis 2 classes Anamnesis and examination in oral surgery 3 classes Anatomy of the orofacial region 4 classes Local anesthesia in the upper and lower jaw 12 classes Complications of local anesthesia 6 classes Instruments for work in oral surgery 4 classes Typical extractions in the upper and lower jaw 20 classes Atypical extractions 6 classes Complications of extraction 4 classes Tooth extraction in patients at risk 6 classes Presence in the operating room 4 classes Colloquiums for knowledge assessment 1 and 2 4 classes Results of practical teaching: The student will be ready to independently apply local anesthesia and perform a typical tooth extraction. In the anamnesis, they will be able to recognize a patient at risk for extraction and prepare him accordingly. The student will be able to treat all complications that arise during anesthesia and tooth extraction. Total .....75 classes
13	Interrelation of subjects	Anatomy, internal medicine, pharmacology, anesthesia and sedation, clinical radiology
14.	Detailed description of the teaching and working methods for the subject	Interactive teaching, clinical exercises, working in small groups, demonstration, and independent performance of a typical tooth extraction with application of local anesthesia, selection of instrumentation, treatment of complications, and teamwork (according to the specifics of the subject).
15.	Total available time	240 classes

16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching. classes	45 classes
		16.2.	Exercises (laboratory, lecture), seminars, teamwork: classes	75 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	120 classes
18	Signature requirements	Regular attendance at theoretical classes 1-3 points (minimum 60% attendance) Regular attendance and activity at practical classes 5-7 points (the student has the right to be absent from two exercises)		
19	Method of assessment			
	19.1.	Tests: points		Test 1 20 points Test 2 10 points
	19.2.	Seminar paper/project, written and oral presentation:		5 points
	19.3.	Final exam: practical and oral		10+45 = 55 points
20	Grading criteria (points/grade)		from 59 points	5 (five) (F)
			60 to 68 points	6 (six) (E)
			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 teaching		Self-evaluation by students, control of assistants in carrying out practical teaching and assessment of the students' success, as well as the pass rate of students who have passed the course	

22. Literature

Required literature

Ord. No.	Author	Title	Publisher	Year
1.	Zafirova B, Zhivadinovikj J, Matveeva N, Papazova M, Chadikovska E.	Anatomy 1 for students from the Faculty of Dentistry.	Skopje: UKIM, Faculty of Medicine;	2020
2.	Zhivadinovikj J Matveeva N, Papazova M, Zafirova B, , Chadikovska E	Anatomy 2 for students from the Faculty of Dentistry.	Skopje: UKIM, Faculty of Medicine;	2019
3.	Markovikj A.	Practicum of oral surgery	Faculty of Dentistry, Belgrade	2011
4	Todorovikj Lj.	Anesthesia in dentistry	Belgrade: Nauka	2001
5	Todorovikj Lj.	Oral surgery	Belgrade: Nauka	2002
6	Џејмс Р. Хуп	Modern oral and maxillofacial surgery	Arberia Design	2017
7	The teachers of the Department of Oral Surgery	Authorized and systematized lectures	UKIM Faculty of Dentistry, Skopje	2013
8	Kacarska M. J.	Diagnosis and surgical treatment of periapical inflammatory lesions		

22.1.

	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Stanley Malamed	Local anesthesia	Elsevier	2011
		2.	Fragiskos D.	Oral surgery	Springer	2007
		3.	Stanley Malamed	Medical emergencies in the dental office	Mosby, Elsevier	2007
		4	James W. Little	Dental Management of the Medically Compromised Patient	Elsevier, Mosby	2013
		5	Peterson Larry J	Contemporary oral and maxillofacial surgery	Mosby Year Book, Inc	1993