

		4.	Ten Cate's Oral Histology: Development, Structure, and Function 10 th edition	Nancy A	Elsevier	2024
		5.	Orban's Oral Histology, Embryology and Physiology, 16th Edition	Kumar G S	Elsevier	2023

Serial number: 13

Annex no. 3		First cycle study program			
1.	Title of courses	Materials, Devices and Instruments in Orthodontic Technique			
2.	Code	PDTEOT1			
3.	Study Program	Professional Dental Technicians			
4.	Organizer of the study program (unit, i.e. institute, department, division)	UKIM - Faculty of Dentistry – Skopje, Orthodontics Department			
5.	Degree (first, second, third cycle)	First Cycle			
6.	Academic year/semester	Year	1	semester	2
7.	Course load expressed in ECTS credits	3			
8.	Teacher (in case of multiple teachers, a responsible teacher is appointed)	Prof. Dr. Natasha Tosheska Spasova and teachers from the Department of Orthodontics			
9.	Course language	English			
10.	Necessary prerequisites for listening to and passing the course	/			
11.	Course objectives (competencies) and learning outcomes:	Introducing students to orthodontic dental techniques, basic appliances, instruments, and dentistry and dental materials.			
12.	Detailed content of the course by chapters and units with learning outcomes for each chapter	Theoretical teaching Chapter 1 - Introduction to orthodontic dental technique, appliances, instruments and dental materials Introduction to orthodontic dental technique, basic appliances, instruments and dentistry and dental materials. 1 class Classification and properties of dental materials. 1 class Biocompatibility of dental materials. 1 class <i>Outcomes of the 1st chapter: The student will be introduced to orthodontic dental technique, basic appliances, instruments and dentistry and dental materials.</i> Chapter 2 - Introduction to imprinting materials, plaster, wax, acrylate, metals, alloys, screws and wires in orthodontic technique Imprinting materials (hard, plastic and elastic) 1 class Plaster, waxes, cements. 1 class Metals, dental alloys, screws and wires in orthodontic technique. 1 class Acrylates, polymerization. 1 class Materials for the manufacture of fixed orthodontic appliances			

		(orthodontic rings, braces, arcs, springs). 1 class Materials for bonding braces. 1 class Materials and devices for making retainers. 1 class Rubber and plastic elements (chains, elastics for inter/intramaxillary traction). 1 class Materials for processing, grinding and polishing orthodontic appliances. 1 class Isolation equipment in a dental laboratory. 1 class Materials for 3D designing and printing in orthodontic technique 1 class Heat sources in a dental laboratory 1 class <i>Outcomes of the 2nd chapter: The student will be introduced to impression materials and all other dentistry and dental materials used in orthodontic techniques.</i> Total: 15 classes <i>Exercises</i> For each of the above theoretical methodological units, students will conduct literature review and prepare seminar papers on the materials, devices and instruments used in the orthodontic dental laboratory, which they will present to fellow students and the responsible teacher 15 classes Total: 15 classes		
13	Interrelationship of courses	Basics of orthodontics, Orthodontic appliances 1, Orthodontic appliances 2		
14.	Detailed description of the teaching and working methods for the subject	Interactive teaching, work in small groups, visit to an orthodontic dental laboratory, introduction and demonstration of the basic devices, instruments and dentistry and dental materials used in the daily work of the orthodontic dental technician, independent research in the preparation of seminars and their presentation.		
15.	Total available classes fund	90 classes		
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching, classes	15
		16.2.	Exercises (laboratory, classroom), seminars, teamwork: classes	15
		16.3.	Practice: classes	
17.	Other forms of activities	17.1.	Project work: classes	
		17.2.	Individual work: classes	20
		17.3.	Homework - tasks	40
18	Signature requirements			
19	Method of the evaluation			
	19.1.	Tests: points	50	
	19.2.	Seminar work/project, written and oral presentation: points	10	
	19.3.	Final exam: points	40	
20	Evaluation 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 teaching	Self-evaluation by students, control of assistants in carrying out practical teaching and assessment of the achieved success of students, as well as the pass rate of students who have passed the course				
22.	Literature					
	22.1.	Compulsory literature				
		Serial number	Author	Title	Publisher	Year
		1.	Gordana Kovachevska, Aneta Mijoska	Dental materials - dental and clinical		2019
		2.	Stamenkovikj D. et al.	Dental construction materials	Kukja Shtampe, Zemun	2007
		3.	Teachers from after Department of Orthodontics	Presentation slides	Faculty of Dentistry Ss. Cyril and Methodius University Skopje	
	22.2.	For further reading				
		Serial number	Author	Title	Publisher	Year
		1.	Jerolimov V et al.	Osnove Stomatoloskih materijala	Zagreb	2005

Serial number: 14

Annex no. 3		First cycle study program			
1.	Title of courses	Medical Ethics and Psychology			
2.	Code	PDTEEP1			
3.	Study Program	Professional Dental Technicians			
4.	Organizer of the study program (unit, i.e. institute, department, division)	UKIM - Faculty of Dentistry – Skopje, Department of Dental Prosthetics			
5.	Degree (first, second, third cycle)	First Cycle			
6.	Academic year/semester	Year	1	semester	2
7.	Course load expressed in ECTS credits	3			
8.	Teacher (in case of multiple teachers, a responsible teacher is appointed)	Prof. Dr. Julijana Nikolovska			
9.	Course language	English			
10.	Necessary prerequisites for listening to and passing the course	/			
11.	Course objectives (competencies) and learning outcomes:	Within the theoretical lectures of the course, students will have the opportunity to gain broader knowledge about medical and dental ethics, about the application of basic ethical principles in clinical practice such as: respecting patients' rights to trust, informed consent and autonomy, applying the rule primum non nocere and advocating the attitude of empathy, the doctor-patient relationship, getting to know dentistry as a profession, its specific characteristics and the application of professional ethics, as well as broader knowledge			