

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.	Kovachevska Gordana, Aneta Mijoska	Dental materials - dental and clinical	Faculty of Dentistry	2019
		2.				
		3.				
	22.2.	For further reading				
		Serial number	Author	Title	Publisher	Year
		1.	Phillips	Science of dental materials	Elsevier	2003
		2.	Craig's	Restorative dental materials	Elsevier	2008
		3.				

Serial number: 11

Annex no. 3		First cycle study program			
1.	Title of courses	Technology of Fixed Protheseses - Crowns			
2.	Code	PDTMFC1			
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	8			
8.	Teacher (in case of multiple teachers, a responsible teacher is appointed)	Prof. Dr. Vesna Korunovska Stevkovska and teachers from the Department of Dental Prosthetics			
9.	Course language	English			
10.	Necessary prerequisites for listening to and passing the course	For attendance to the course: Signature for attended course Teeth Morphology 1 For exam: Passed exam in Teeth Morphology 1 and attended course of Teeth Morphology 2			
11.	Course objectives (competencies) and learning outcomes:	The student should learn the principles and techniques of laboratory production of artificial dental crowns. Prepare and introduce the student to the basic principles and methods of work in the dental laboratory - modeling and production of crowns from a technical aspect, and also to get acquainted with modern methods and systems, all-ceramic products and digital CAD-CAM technology. Acquire competencies and knowledge in the field of fixed prosthetics			

		technology - crowns.
12.	Detailed content of the course by chapters and units with learning outcomes for each chapter	Theoretical teaching Chapter 1: Basic concepts and methods for modeling crowns - Concept of fixed prosthetic constructions and their historical development, artificial dental crowns, types and conditions that artificial crowns that must be met 2 classes - Basic information about tooth preparation, concept of preparation boundary, introduction to different types of impressions in fixed dental 2 classes - Working models with different types of moving stumps 2 classes - Preparation of the tooth core, methods for making a crown with wax foil, with plastic foil (Adapta system), by dripping and by immersion in molten wax and CAD-CAM design and CAD-CAM production of a crown 2 classes - Modeling the occlusal surface and axial surfaces 2 classes - Filling, casting and processing of the casting 2 classes - Faceting of the crown with composite materials and an aesthetic crown faceted with ceramic 3 classes <i>Results of Chapter 2: The student will focus on education about the technological process of modeling in the production of fixed prosthetic constructions - crowns.</i> Chapter 2 2: Fabrication of custom crowns, non-metal crowns, double crowns, onlays, partial crowns - Custom (atypical) crowns 2 classes - Definition of non-metal crowns and modern types of non-metal crowns 2 classes - All-ceramic crowns made with CAD-CAM technology 2 classes - Telescopic (double) crowns, conical crowns according to Kerber and crowns with a metal skeleton made by galvanization 2 classes - Abutments - individual cast abutments, ready-made abutments and abutments made of aesthetic materials 3 classes - Partial crowns, vestibular veneers, inlays, onlays, overlays 2 classes - Protective crowns 2 classes <i>Results of Chapter 2: The student will focus on education in making different types of crowns.</i> Total 30 classes <i>Exercises:</i> <i>Exercises of the 1st chapter 45 classes</i> <i>Exercises in the 2nd chapter 45 classes</i> Total 90 classes

13	Interrelationship of objects	with Teeth Morphology 1				
14.	Detailed description of the teaching and working methods for the subject	Interactive teaching, laboratory exercises, demonstration of laboratory instruments and methods used, presentation of seminar papers.				
15.	Total available classes fund	240 classes				
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching, classes	30		
		16.2.	Exercises (<u>laboratory</u> , classroom), seminars, teamwork: classes	90		
		16.3.	Practice: classes			
17.	Other forms of activities	17.1.	Project work: classes			
		17.2.	Individual work: classes			
		17.3.	Homework - tasks	120		
18	Signature requirements	Attendance at 60% of theoretical classes and completed exercises program				
19	Method of the evaluation					
	19.1.	Tests: points (2 X 20 points)			40	
	19.2.	Seminar work/project, written and oral presentation: points			10	
	19.3.	Final exam: points			50	
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)		
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22.	Literature					
	22.1.	Compulsory literature				
		Serial number	Author	Title	Publisher	Year
		1.	Gigovski N.	Preclinical Fixed Prosthetics - Crowns 1	Monography	2017
		2.	Bajevska J.	Dental ceramics	Faculty of Dentistry	2014
		3.	Fundamentals of Fixed Prosthodontics 4th edition	Shillingburg H. et al	Quintessence Publishing Co.	2012
	22.2.	For further reading				
		Serial number	Author	Title	Publisher	Year

		1.	Trifunovikj D. et al.	Dental prosthetics- preclinical	Zavod za udzbenike- Belgrade	2005
		2.				
		3.				

Serial number: 12

Annex no. 3		First cycle study program			
1.	Title of courses	Oral Histology and Physiology			
2.	Code	PDTMHF1			
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 Oral and Periodontal Diseases			
5.	Degree (first, second, third cycle)	First Cycle			
6.	Academic year/semester	Year	1	semester	2
7.	Course load expressed in ECTS credits	4			
8.	Teacher (in case of multiple teachers, a responsible teacher is appointed)	Prof. Dr. Kjiro Ivanovski and teachers from the Department of Oral and Periodontal Diseases			
9.	Course language	English			
10.	Necessary prerequisites for listening to and passing the course	/			
11.	Course objectives (competencies) and learning outcomes:	After mastering the pre-math program, students will be able to know the structure and function of the cells and tissues of the orofacial region, as well as the basic principles of their integration into the functional whole of the oral cavity. Introducing students to the physiological processes in the oral cavity, which are important for dental technicians.			
12.	Detailed content of the course by chapters and units with learning outcomes for each chapter	Chapter 1 - From molecule to cell. The cell as the basic structural and functional unit of the organism 3 classes <i>Outcomes of the 1st chapter: Students will acquire basic knowledge of the molecular and cellular organization of living organisms. Will understand the cell as the basic structural and functional unit of the organism.</i> Chapter 2 - Histological structure and physiology of muscle tissue and nerve fibers. Physiology of reflexes 4 classes <i>Outcomes of the 2nd chapter: Students will learn the histological structure and function of muscle tissue and nerve fibers. They will be able to explain their role in physiological processes. They will understand the physiology, anatomical-histological basis of reflexes.</i> Chapter 3 - Analyzers - Receptors in the oral cavity and nerve fibers, mechanoreceptors, chemoreceptors, thermoreceptors, sense of taste			