Attachment No. 3		Course program for the first cycle of studies			
1.	Course title	Biomechanics of the masticatory system			
2.	Code	DMEBM4			
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 Prosthodontic Dentistry			
5.	Degree (first, second, third cycle)	Integrated First and Second Cycle Studies			
6.	Academic year/semester	Year	4	Semester	7
7	Course workload expressed in ECTS credits	2			
8.	Teacher (in case of multiple teachers, designated teacher in charge)	Prof. Dr. Natasha Sravreva			
9.	Language in which the curriculum is conducted	English			
10.	Necessary prerequisites for taking and passing the course	No			
11.	Course objectives (competences) and learning outcomes:	The student is introduced to the basic biomechanical principles in the function of the masticatory system, the loading of the supporting tissues, i.e., the periodontium and the mucosa, which are particularly important in the implementation of prosthodontic therapy. A particularly important point is the correct planning of prosthodontic products, since this achieves tissue protection and longevity of prosthodontic products.			
12.	Detailed course content by chapters and units with learning outcomes for each chapter	Theoretical instruction – lectures Chapter 1 - Biomechanics of the Masticatory System - Introduction to the biomechanics of the masticatory system (2 classes) -Biomechanics of the lower jaw (1 class) - Biomechanical examination of craniofacial bones in vivo (1 class) -Simulation of mandibular physics (1 class) -Computer simulation of jaw biomechanics (1 class) Outcomes from chapter 1: the student will learn about the biomechanical principles of the masticatory system, how computer simulation affects jaw biomechanics Chapter 2 - Biomechanical characteristics of the masticatory system and planning of prosthodontic devices -Biomechanical characteristics of oral supporting tissues (1 class) -Use of the support (1 class) -Biomechanical response of the masticatory system to loading (2 classes)			

		- Biomechanical aspects in the planning of prosthodontic devices (2 classes) -Biomechanical principles in the preparation of natural teeth (2 classes) -Dental implants from the aspect of biomechanics (1 class) Outcomes from chapter 2. The student is introduced to the biomechanical principles of the preparation of natural teeth, the biomechanical principles of implants, as well as gains knowledge regarding the planning of prosthodontic devices from the aspect of biomechanics. Total: .....15 classes			
13	Interrelation of subjects	With courses from Dental Prosthodontics			
14.	Detailed description of the teaching and working methods for the subject	Interactive teaching, working in small groups, presentation and performance of laboratory procedures, demonstration of instruments and methods used, teamwork (according to the specifics of the courses)			
15.	Total available time	60 classes			
16.	Forms of teaching activities	16.1.	Lectures - theoretical teaching classes	15 classes	
		16.2.	Exercises (auditorium-seminas) 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				
19	Grading method				
	19.1.	Tests: points	30 points		
	19.2.	Seminar paper/project, written and oral presentation: points	10 points		
	19.3.	Final exam: points	60 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.	Guguvchevski Lj	Biomechanics of the masticatory system	Skopje	2011
		2.	Fundamentals of Fixed Prosthodontics 4th Edition	Shillingburg H. et al	Quintessence Publishing Co.	2012
	22.2.	Additional literature				
		Ord. No.	Author	Title	Publisher	Year
		1.	Weinberg AL.	Biomechanics of Tooth and Implant Supported Prosthesis	Quintessence Pub Co	2003