

1	Subject	Ergonomics			
2	Code	DER205			
3	Study Program	Study Program of Integrated studies in dental medicine			
4	Organizing Institution (Unit, Institute, Chair, Department)	Faculty of dentistry Department of Dental Pathology and Endodontics			
5	Educational degree (first or second cycle)	Integrated study			
6	Study year/semester	2/3	7	Number of credits	3
8	Teacher	Teachers from Department of Dental Pathology and Endodontics			
9	Preconditions	Signatures of first and second semester courses			
10	Teaching goals: Basic knowledge of ergonomics in dentistry and proper design of dental office and work environment, the design of the dental instruments and ergonomic aspects of the proper positioning of the dental equipment, which will enable more efficient and better performance of the work tasks, the basic principles of four-handed dentistry, dentist work position and patient position, risk factors for the development of occupational diseases and their prevention.				
11	Brief content				
	Theoretical course				Class
	Introduction to ergonomics and ergonomic principles in dentistry				1
	Ergonomic office design, and equipment				1
	Ergonomic design of dental instruments				1
	The dentist's and his team operating posture – ergonomic aspects				1
	Ergonomics and hygiene				1
	Ergonomic risk - factors in dentistry - causes of occupational diseases				1
	Musculoskeletal disorders and factors for their occurrence				1
	Musculoskeletal disorders of certain parts of the body caused by a non-germanic position and dental work				1
	Prevention of musculoskeletal disorders resulting from exposure to risk - factors in dentistry				1
	Injuries and eye diseases related to the dental profession, problems with venous circulation in the dental team and their prevention				1
	Basics of four-handed dentistry				2
	Modern way and modern ergonomic equipment in dentistry for the process of diagnosis and therapy, visualization of the working area and computerization of the dental office				1
	Ergonomic criteria in dental practice				1
	Test				1
	Total				15
	Practical course				Class
	Ergonomic Design of the Workspace in Dentistry				1
	Ergonomic design of instruments in dentistry				1
	Positions and movements in the work of the dentist and his team and the application of ergonomics at work at a standing position				2
	Positions and movements at the work of the dentist and his team and application of ergonomics while working at a seating position				2

	Musculoskeletal disorders and factors for their occurrence		1
	Prevention of musculoskeletal disorders resulting from exposure to risk - factors in dentistry		1
	Basics of four-handed dentistry		4
	Modern way and modern ergonomic equipment in dentistry for the process of diagnosis and therapy, visualization of the working area and computerization of the dental office		2
	Test		1
	Total		15
	Seminars		Class
	Elaboration of topics from the relevant material, presentation of the topics by the students and active involvement of the students until discussion of the given topic.		15
12	Methods of studying: class room oriented lectures, interactive lectures, group work, practical training, seminar paper		
13	Total available time	90 classes	
14	Organization of the course	15 classes - theoretical course, 15 classes- practical course, 15 classes – seminars, 90 classes - home individual learning and other activities	
15	Forms of teaching activities	15.1.	Theoretical course 15 classes
		15.2.	Practical course, seminars Practical course- 15 classes, seminars – 15 classes
16	Other forms of activities	16.1.	Project tasks
		16.2.	Individual tasks
		16.3.	Individual (home) learning 45 classes
17	Method of assessment	17.1.	Tests 30 points
		17.2.	Active participation, seminar paper/project (oral/written presentation) 20 points
		17.3.	Final (oral) exam 50 points
18	Grading criteria (points / grade)	Up to 59 points 5 (five) (F)	
		from 60 to 67 points 6 (six) (E)	
		from 68 to 75 points 7 (seven) (D)	
		from 76 to 84 points 8 (eight) (C)	
		from 85 to 93 points 9 (nine) (B)	
		from 94 to 100 points 10 (ten) (A)	
19	Requirement for signature and taking the final exam	The student should have 60% of the points assigned for lectures and exercises and have passed the written part of the exam.	
20	Language of the course	English	
21	Method for evaluation of the quality of education	Anonymous student's evaluation of the subject, teachers and collaborators involved in the educational activities	
22	Literature		
	22.1.	Mandatory textbooks	

No.	Author	Title	Publisher	Year	
1	Bethany Valachi	Practice Dentistry Pain-Free: Evidence-based Ergonomic Strategies to Prevent Pain and Extend Your Career	Posturedontics Press	2008	
2	Denise C. Murphy	Ergonomics and the Dental Care Worker	Washington, DC: American Public Health Association	1999	
22.2.	Additional literature				
	No.	Author	Title	Publisher	Year
		Апостолска С.	Ергонимија	Апостолска С	2014