1	Subject	Basics of clinical radiology						
2	Code	DKR305						
3	Study Program	Study Program of Integrated studies in dental medicine						
4	Organizing Institution (Unit, Institute, Chair, Department)	Faculty of Medicine; Department of Radiology						
5	Educational degree (first or second cycle)	Integrated study of first and second cycle						
6	Study year/semester	3/5						
8	Teacher	Professors from Depar	tment of Radiolog	y				
9	Preconditions	Having attended all courses from the 3 <sup>st</sup> and 4 <sup>th</sup> semester, and having passed all mandatory subjects from the 1 <sup>st</sup> and second semester						
10	Teaching goals: To familiarize studer the area of dental medicine	o familiarize students with the basic of radiology, general diagnostic methods, their application in medicine						
11	Brief content							
	Theoretical course							
	1.X-ray physics					1		
	2.Basics of radiobiology					1		
	3.Principles of x-ray image generation, geometric regularities   4.Radiology protection   5.Radiology of the cardiovascular system					2		
						1		
						1		
	6.Radiology of the respiratory system   7. Radiology of the gastrointestinal tract   8.Radiology of liver, pancreas and urinary tract   9.Radiology of osteoarthritic system   10. Radiology and radiological pathology of the facial skeleton   11. Computerized tomography and its application in dentistry   12. Magnetic resonance imaging and its application in dentistry   13. Ultrasound							
	14. Colloquium					1		
	Total				15			
	Practical lessons:					Class		
	Demonstration of performing certain radiological methods General terms of radiological image and it's analysis							
	Radiological protection principles   Obtaining X-rays and general characteristics (wavelength, extension, quality, permeability)					2		
						3		
	X-ray properties (luminescence, photographic effect, ionization)   Obtaining X-ray image   Introduction to conventional and advanced imaging methods (CT, MR, ultrasound)							

	Total					15		
12	Total available time	Э	60 classes	60 classes				
13	Organization of the course		15 classes - theoretical course, 15 classes- practical course, 30 classes - home individual learning and other activities					
14	Forms of teaching activities	14.1.	Theoretical course 15 classes			15 classes	;	
		14.2.	Practical course, se	eminars		Practical course- 15 classe		
15	Other forms of activities	15.1.	Project tasks					
		15.2.	Individual tasks					
		15.3.	Individual (home) learning		30 classes			
16	Method of assessment	16.1.	Tests			30 points		
		16.2.	Active participation, seminar paper/project (oral/written presentation)			10 points		
		16.3.	Final (oral) exam60			60 points		
17	Grading criteria (points / grade)	Up to 59 p	Up to 59 points 5				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)						
18	Requirement for signature and taking the final exam	The student is required to actively follow all of the planned activities. Conditions for assessment of knowledge: In order to get a signature, the student should obtain minimum points in both theoretical and practical courses, and to have passed the prescribed test. If the student has not passed the prescribed test and final exam, he/she in next exam session will have paper part of the exam (40 points) and final exam (60 points)						
19	Language of the	English	English					
20	Method for evaluation of the quality of education	Anonymous student's evaluation of the subject, teachers and collaborators involved in the educational activities						
21	Literature							
	22.1.	Mandatory textbooks						
		No.	Author	Title	Publis	sher	Year	
		1	Subject profesors	Authorized lectures (script)	Facul	ty of medicine	2019	
		2	Saton D.J.W.R. Young,	A short textbook of clinical imaging	Sprin Londo	ger Verlag, on	1990	
	22.2.	Additional literature						
		No.	Author	Title	Publis	sher	Year	
		1	Gary Johnson	Atlas of Emergency Radiology	WB S Comp	aunders bany	2001	

	2	Kok HK et al	Interventional Radiology for Medical	Springer	2017
			Sludenis		