COURSE DESCRIPTION FORM						
Course Code and Name	DHF 5521 Effects of Ionizing and Non-Ionizing Radiation					
Course Semester	9					
Catalogue Data of the Course (Course Content)	Identification of ionizing and non-ionizing radiation and their effects on humans					
Course Textbooks	-E Eğilmez. Tıpta radyasyon ve korunma. Pelikan yayınları. 2009. -Harorlı A, Akgül H M, Dağistan S. Diş Hekimliği Radyolojisi. Atatürk Üniversitesi Yayınları. Erzurum, 2006.					
Supplementary Textbooks	-White SC, Pharoah MJ. Oral Radiology. PrinciplesandInterpretation.MosbyElsevier, St. Louis, Missouri, 2014.					
Credit (ECTS)	3					
Prerequisites for the Course (Attendance Requirements)	There is no prerequisite for Attendance is mandatory.	this course.				
Course Type	Vocational/Technical Elective Course					
Language of Instruction	Turkish					
Course Objectives	To learn ionizing and non-ionizing radiation sources and their effects on humans.					
Course Learning Outcomes	 Defines radiation Knows the terms of ionizing and non-ionizing radiation Knows ionizing and non-ionizing radiation sources Knows the effects of ionizing and non-ionizing radiation on humans 					
Instruction Method (Face-to-face, Distance education etc.)	This course is conducted only in the form of face-to-face.					
Weekly Schedule of the Course	 Week 1: Definition of radiation Week 2: Basic radiation physics Week 3: Ionizing and non-ionizing radiation sources Week 4: Radiation measuring devices Week 4: Radiation and ionization Week 5: Radiation and ionization Week 6: Natural radiation Week 7: Artificial radiation 8.Week: Non-ionizing radiation and electromagnetic fields Week 9: Dose measurement-estimation methods based on radiological examinations in humans Week 10: Dose measurement-estimation methods based on radiological examinations in humans Week 11: Effects of ionizing radiation on humans Week 12: Effects of ionizing radiation on humans Week 13: Effects of non-ionizing radiation on humans Week 14: Effects of non-ionizing radiation on humans 					
Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)	Weekly theoretical course h Weekly practical course ho Reading activities Internet search and library w Preparing presentations Making presentations Midterm and revision for m Final exam and revision for	iours urs work idterm	2 hours 1 4 weeks 1 hour 14 weeks 2 hours 3 weeks 2 hours 4 weeks 2 hours 3 weeks 1 hour 1 week 2 hours 3 weeks 2 hours 3 weeks 2 hours 3 weeks			
Assessment Criteria	Midterm exam	Number(s)	Weight (%) 60			
	Assignment Application					

	Project									
	Practice									
	Quiz									
	Final exam					40				
	Total		2			10	0			
Workload of the Course	Activity			Number of Weeks	Duration (Weekly Hour)		y S	End of Semester Total Workload		
	Weekly the	oretical course	hours	14	2	,		28		
	Weekly theoretical course hours Weekly practical course hours			14	1		_	14		
	* 1		Jours	3	2			6		
	Reading activities					-	-			
	Internet search and library work Designing and implementing materials			4 0	2 0		-	8 0		
	Making a r	eport		0	0		(0		
		presentations		3	2			6		
					-			-		
	Making pre		midter	1	1			1		
		nd revision for		3	2			5		
	Final exam and revision for final exam		or final	3	2			6		
	Total work				-			75		
	Total work							3,0		
	Course Cre	dit (ECTS)						3		
	No		Program Ou			1	2	3	4	5
Contribution Level between Course Outcomes and Program Outcomes	Knows the normal structure and funct the human body and specifically the structures and teeth in the mouth area basis of cells, tissues, organs and syste and their interactions with each other.			ifically the mouth area on t ans and systems	he		X			
	2	Defines the causes and formation mechanisms of oral, dental and jaw diseases, the findings they cause, structure and function disorders and how they affect the organism.				x				
	3	Knows, comprehends, relates and evaluates the symptoms and findings in the national core education program of Dentistry and the Extended Education Program of Gazi University Faculty of Dentistry, diseases and conditions and professional practices at a determined level.					X			
	4	Knows how to reach the best current scientific evidence, evaluate its reliability and validity in line with personal learning needs.					x			
	5	Knows the legislation on professional legal responsibilities, deontology and ethical principles.					X			
	6	Knows and makes professional practices in the National Core Education Program of Dentistry and the Extended Education Program of Gazi University Faculty of Dentistry at the specified level.			X					
	7	It carries out diagnosis, treatment and follow- up processes by prioritizing evidence-based practice, critical thinking and ethical principles.					X			
	8	She/he is aware of her/his limitations, sets personal learning goals to support herX								

		professional development, and directs the patient to the appropriate center when necessary.				
	9	Knows the incidence of diseases in the mouth, teeth and jaws in society, contributes to the prevention and reduction.	X			
	10	While practicing her/his profession independently, she/he acts in accordance with the laws, regulations, legislation and ethical principles related to her duties and responsibilities.		X		
	11	Has teamwork and leadership skills, becomes a role model to colleagues and society.	X			
	12	She/he plans her/his personal professional development and realizes it with the principle of lifelong learning.		X		
	13	Establishes effective written and verbal communication with the patient, patient relatives, other health personnel, society, relevant sectors and the media.	x			
	14	Follows the innovations in her/his profession by using foreign language and information communication technologies.		x		
Lecturer(s) and Contact Information	Lecturer's First/Last Name: 1. Prof. Dr. İlkay Peker 2. Prof. Dr. Zühre Akarslan E-mail address: drilkaypeker@gmail.com dtzuhre@yahoo.com					