RADIOBIOLOGY									
1	Course Title:	RADIOBIOLOGY							
2	Course Code:	BYL4099							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0	0						
11	Prerequisites:	None							
12	Language:	Turkish	Turkish						
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. NİLÜFER ÇİNKILIÇ							
15	Course Lecturers:	Prof. Dr. Nilüfer ÇİNKILIÇ							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: aydemirn@uludag.edu.tr Telefon: 0 224 294 17 97 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: aydemirn@uludag.edu.tr Phone: 0 224 294 17 97							
17	Website:								
18	Objective of the Course:	The aim of the course to teach the radiation biology.							
19	Contribution of the Course to Professional Development:	It contributes that the student of the Department of Biology has a basic knowledge about radiation and the damages it causes.							
20	Charning Outcomes:								
			To have information regarding the classification of living hings and their structural and molecular properties						
		i	To analyze experiment and observation results analytically and draw conclusions						
		l	To earn the skills to transfer information clearly and understandably						
		4							
		5							
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	Course Court of	10							
21	Course Content:								
\A/ -			Irse Content:						
тлеек	Theoretical Practice								

1	Interaction between radiation and matter																
2	Molecular effects of radiation, cell killing effect																
3	Damage repair, cell survival methods, effect of oxygen, chemical and biological regulators																
4	Cell kinetics and tumor cell death																
5	Early and late respond in normal tissues																
6	Clinical application of radiotherapy																
7	Protons, neutrons and pions																
8	Natural source of radiation																
9	Radiation with human origin, genetics and somatic risks																
10	Risks for low level exposure to radiation, critical organs																
11	Radioprotection procedures																
12	Limit levels																
13	Open and closed radiation sources																
14	Outer	SOL	irces	of rad	iation												
22	Textbooks, References and/or Other Materials:						İst	İstanbul Üniversitesi Yayınları, Radyobiyoloji Ders Kitabı.									
23	Asses	sme	nt														
Activites						Number			Dura	Duration (hour)			Total Work Load (hour)				
Theoretical Home Work-project 0						0.	0.00 2.			2.00	2.00 28			28.00			
Practicals/Labs								0			0.00			0.00			
For a preperation 2							10	100.00			2.00			28.00			
Homew	Homeworks								14			3.00			42.00		
<b>Brojees</b>	kojeets Grade								5						25.00		
Field St	d Studies								0			0.00			0.00		
Midtern	erm exams							10	100.00			1.00			1.00		
Others	rs								0			0.00			0.00		
EionartsE	lsēxams						te	test method			1.00			1.00			
	I Work Load													126.00			
	tal work load/ 30 hr													4.17			
ECTS (	Credit	of th	ne Co	urse												4.00	
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																	
	Ρ	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0		0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0		0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
		1	L	0: L	earr	ning C	bjec	tives	5 I	PQ: P	rogra	m Qu	alifica	tions	5		•
1																	

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					