HEALTH PHYSICS									
1	Course Title:	HEALTH	PHYSICS						
2	Course Code:	FZK4216							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	4							
6	Semester:	8							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f							
14	Course Coordinator:	Prof. Dr. Z. Gökay Kaynak							
15	Course Lecturers:	Yok							
16	Contact information of the Course Coordinator:	kaynak@uludag.eduç.tr Tel: 0 224 294 17 77							
17	Website:								
18	Objective of the Course:	To give about position and importance of the radiation at life and medical area To learn and apply general concepts about radiation							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Learns information about radiations						
		2	Learns the unit of radiactivite						
		3	Learns the product of X-ray mechanism						
		4	Learns the radioactivity decay law						
		5	Learns the interaction of radiation with matter						
		6	Have an information about detectors						
		7	Learns the biologic and somatic effects of radiation						
		8	Have an information about medical applications of radiation						
		9							
	lo o	10							
21	Course Content:								
\\/a=1:	Course Content:								
vveek 1	Theoretical  Matter and structure of atom, Atom n	nodolo	Practice						
'	Radiations and radiation intensity, ex and ionization								
2	Radiations and radiation intensity, exand ionization	cited							
3	Radioactivity, Radioactive decay, deconstant,	cay							

4	half-life, Average life, Biological half I effective half life	ife,								
5	Units of Radioactivity, Activity calcula	ited,								
6	Type of Radioactive decay  X-rays and production, properties									
7	Interactions of radiation with matter									
_	Interactions of radiation with matter									
8										
9	Dosimetry									
10	Dosimetry									
11	Biological effects of radiations, Free r									
12	Somatic effects of radiation, Genetic									
13	Radiation protected, Non-ionization rasources, units, region	adiation;								
14	Protected from external radiation sou	rces								
22	Textbooks, References and/or Other Materials:		Çekirdek Fiziğinin Esasları, Atam P.Arya, Çeviren Doç.Dr. Yusuf Şahin Atatürk Üniversitesi Fen Fak. Yayını, 1995. Nükleer Fizik K.S.Krane, Çeviri Editörü Başar Şarer,							
			Palme Yayıncılık 2001.  Nükleer Fizik, Prof.Dr. Besim Tanyel, Ege Üniversitesi Fen Fakültesi Ders Kitapları Serisi, No.139, 1994  Çekirdek Fiziği Mehmet girin, Yıldız Teknik Üniversitesi,							
Activit	es			Number	Duration (hour)	Total Work Load (hour)				
Theoretical				14 odern Fiziğin Kavramlı	2.00	28.00 G Önengüt				
Practic	als/Labs			14	2.00	28.00				
Self stu	dy and preperation		)	() ekirdek Fiziăine Giris V	0.00 V.N. Cottingham, D.A					
Homew	vorks			14	2.00 28.00					
Project	S		20	<b>1</b> 01	0.00	0.00				
Field S	tudies			0	0.00	0.00				
Midtern	n exams		В	aGar garer, Palme Yay	ирсник 2001.	16.00				
Others				0	0.00	0.00				
FERME	ZEARNING ACTIVITIES	NUMBE	W	ÉIGHT	16.00	16.00				
Total W	/ork Load					116.00				
Florar Work 10ad/ 30 hr				0.00	3.87					
	Credit of the Course					4.00				
' '				0.00						
Final E	xam		60.00							
Total 2				100.00						
Contribution of Term (Year) Learning Activities to Success Grade			40.00							
Contrib	ution of Final Exam to Success Grade	)	60.00							
Total			100.00							
Measui Course	rement and Evaluation Techniques Us	sed in the								
24	ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	5	1	0	3	0	0	4	2	0	0	5	5	5	5
ÖK2	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
ÖK3	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
ÖK4	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
ÖK5	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
ÖK6	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
ÖK7	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
ÖK8	5	5	5	1	0	3	0	0	4	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	on				3 Medium			4 High			5 Very High					