		BIOP	HYSICS						
1	Course Title:	BIOPHY	ŚICS						
2	Course Code:	FTR1007	7						
3	Type of Course:	Compuls							
4	Level of Course:	First Cyc	-						
4 5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Doç. Dr.	Engin Sağdilek						
15	Course Lecturers:	Yok							
16	Contact information of the Course Coordinator:	esagdilel BUÜ Tıp Tel: 5404	k@uludag.edu.tr Fak Biyofizik AD 45						
17	Website:								
18	Objective of the Course:	mechani	n aim of the course is to teach the students about the cs, electricity, magnetism and optics of physics. To the relationship between the basic fields of physics and						
19	Contribution of the Course to Professional Development:		who master the physics-biology relationship will be more nt professionally.						
20	Learning Outcomes:								
		1	Gains knowledge of the subject and laws of mechanics.						
		2	Understands the basic principles of electricity and magnetism.						
		3	Explains the basic properties of light.						
		4	Be aware of the importance and features of physics in human life.						
		5							
		6							
		7							
		8							
		9							
04	Course Contents	10							
21	Course Content:	0-	ourse Content:						
Week	Theoretical	0	Practice						
1	What is biophysics? Why is physical important in physical therapy?	science							
2	Measurement and unit systems								
3	Vector quantities and operations with	vectors							
4	Biomechanics and basic principles								

5	Force, m																
6	concepts		t, mas	s, wei	ight, ba	alance	•										
U	Simple r things	d theii	r exam	ples ir	า living												
7	Motion,	Motion, velocity, acceleration, momentum															
8	Basic pr thermod	inciple ynami	s of w cs	ork, p	ower, e	energy	/ and										
9	Mechan	cal pro	opertie	s of n	natter												
10	Propertie	es of li	quids	and g	ases												
11	Fluid me	chanic	cs														
12	Electricit	y and	magne	etism													
13	General	prope	rties o	f bioe	lectric	poten	tials										
14	Biologica	al sign	als														
			,			.1						<i>6</i> (1 - 1			<u> </u>		
22	Textbooks, References and/or Other Materials:								Herma 06.	in IP. F	hysics	of the F	luman	Body. 3	Springer	,	
									Pehliva	an F. E	Biyofizik	. 2. bas	kı. Had	cettepe-	-TAŞ: 20	004.	
							3. Çelebi G. Biyomedikal Fizik. 4. Baskı. İzmir; Barış Yayınları: 2008.										
							 Serway RA. Physics: For Scientists & Engineers. Saunders; 1992. 										
Activites									Numb				Duration (hour) Total W Load (h				
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LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low	3 Medium			4 High			5 Very High					