		BIO	PHYSIC								
1	Course Title:	BIOPHY	SIC								
2	Course Code:	TIP1095									
3	Type of Course:	Compulsory									
4	Level of Course:	First Cycle									
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	2.00									
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 face									
14	Course Coordinator:	Doç. Dr. Engin Sağdilek									
15	Course Lecturers:	Dr. öğr.	Üyesi Engin Sağdilek								
16	Contact information of the Course Coordinator:	E-mail: esagdilek@uludag.edu.tr Tel: (0 224) 2954045 Bursa Uludağ Üniversitesi, Tıp fakültesi, Temel Tıp Bilimleri, Biyofizik Anabilim Dalı, 16059, Nilüfer, BURSA									
17	Website:										
18	Objective of the Course:	To evaluate the properties of the cell, the structure and functions of the cell membrane, the transmission of water and substances through the membrane and the signal transmission, membrane bioelectric potentials, the atomic and molecular organization of the living system, the biological effects of ionizing and non-ionizing radiation, the basic structure of the living system and its interaction with physical factors around it, knowing the dynamics of the circulatory system is the aim of this course.									
19	Contribution of the Course to Professional Development:	Knowing the basis and structure of life is the basis of learning animal health and diseases.									
20	Learning Outcomes:										
		1	To be able to comprehend the cell, which is the basic structure of the living system.								
		2 To be able to establish the relationship between cell tissue, organ, system and organism.									
		3	Understanding the communication of the cell with the organism.								
		4	To understand the biological effects of ionizing and non- ionizing radiation and to draw the results.								
		5	To be able to comprehend the dynamics of circulation.								
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21	Course Content:										
		Co	ourse Content:								
Veek	Theoretical		Practice								

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2	inte Bas	ractic	ons. acture			olecula		ng											
3				uids, e diffusic		lytes.													
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5				e funct ting po		al.													
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7	Volt	tage of	clamp	, Patch	n clan	np, EM	G, EK	G.											
8	Fluid mechanics laws and circulation system.																		
9	Dyr	amic	s of th	ne circ	ulator	y syste	m.		T										
10	Flov	<i>w</i> pro	pertie	s of bl	ood a	nd hen	noreol	ogy.											
11	Rac		tivity u			and ra		n.											
12	Ioni	lonizing radiation and its biological effects.																	
13	Non-ionizing radiation and its biological effects.																		
	Activites									Number				Duration (hour)			hour)		
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		PQ1	PQ2	FQ3	PQ4	FQ5	FQ6		-48	1-09	0	PQ11		3	PQ14	PQ15	PQ16		
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ÖK2	5	0	2	0	0	0	0	0	0	0	3	2	0	0	0	0
ÖK3	5	0	2	0	0	0	0	0	0	0	3	2	0	0	0	0
ÖK4	3	0	1	0	2	0	3	0	0	0	3	2	0	0	0	0
ÖK5	5	0	2	0	0	0	0	0	0	0	3	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:					2 low	3 Medium			4 High			5 Very High				