	PROPERTIES OF SKE	LETA	L MUSCLE AND STRUCTURES					
1	Course Title:	PROPER	RTIES OF SKELETAL MUSCLE AND STRUCTURES					
2	Course Code:	BIO5509)					
3	Type of Course:	Optional						
4	Level of Course:	Second	Cycle					
5	Year of Study:	1						
6	Semester:	1						
7	ECTS Credits Allocated:	6.00						
8	Theoretical (hour/week):	3.00						
9	Practice (hour/week):	0.00						
10	Laboratory (hour/week):	0						
11	Prerequisites:	None						
12	Language:	Turkish						
13	Mode of Delivery:	Face to f	face					
14	Course Coordinator:	Prof. Dr.	SIBEL TAŞ					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	smeral@	uludag.edu.tr					
17	Website:							
18	Objective of the Course:	Structure and organization of skeletal muscle, muscle types and molecular mechanisms employed in the contraction of these muscle.						
19	Contribution of the Course to Professional Development:							
20	Learning Outcomes:							
		1	To describe the concentration of ions between the inta and extracellular fluid					
		2	To know transport mechanisms in the cell					
		3	To describe that the structural properties and functions of skeletal muscle					
		4	To describe action potential in the muscle fiber					
		5	To describe the neuromuscular junction					
		6	To describe the mechanisms that muscle fibers use to obtain ATP for muscle contraction.					
		7	To describe structure and functions of the cardiovascular system, including the mechanical and electrical properties of cardiac muscle function					
		8	To describe structure and functions of the smooth muscle					
		9						
		10						
21	Course Content:							
		Co	ourse Content:					
Week	Theoretical		Practice					
1	Transport of ions and molecules acro membranes							
2	The basic pyhsics of membrane pote and action potential							
3	The importance and structure of Na-	K-pump						

4	Nerve	Nerve action potentials																		
5	Excep	Exceptions in nerve signal transmission																		
6	Skele	tal r	nuscl	e cont	ractio	n														
7	Energ	nergy source in muscle contraction																		
8	Neuru contra			r junct	ion-e>	kitation	and													
9	Smoo	th n	nuscle	e cont	ractio	า														
10	Smoo hormo			e cont	ractio	n and	effects	s of												
11	Prope	rtie	s of th	ne hea	rt mu	scle														
12	Rhythmic stimulation of the heart																			
13	Rhythmical excitation of heart, the cardiac cycle and the conduction system																			
14	Anom	alie	s of h	eart tr	ansm	ission :	syster	n												
22	Materials:									Medical Physiology; Arthur C Guyton and John E Hall, 2010 MedicalPhysiology; William F Ganong, 2010 Human anatomyandPhysiology; Robert Carola, John P Harley, Charles R Noback,2002 Biological Science; I,II; William T. Keeton, James L Gould, 1999										
23	Asses	sme	nt																	
Activit	tivites									Numb	er		Dura	tion (Total Work Load (hour)					
Quiz Theore	eoretical U									14		3.00			42.00					
Practica	als/Lat	DS	~							0				0.00			0.00			
Self stu	f study and preperation													2.00			28.00			
	omeworks									5				20.00						
Succes	ects ects Grade								၂၁၇	5000				0.00			0.00			
	Studies								(0			0.00	0.00						
Midtern	erm exams									100.00					(0.00				
Others	ers									0				0.00			0.00			
	surement and Evaluation Techniques Used in the I Exams Ise								ie j	1			40.00			40.00				
	al Work Load															210.00				
	tal work load/ 30 hr									7.00										
ECTS	S Credit of the Course															6.00				
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	P	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	3		1	1	5	5	5	4	3	5	0	0	0	0	0	0	0			
ÖK2	3		1	1	5	5	5	4	3	5	0	0	0	0	0	0	0			
ÖK3	3		1	1	5	5	5	4	3	5	0	0	0	0	0	0	0			
ÖK4	3		1	1	5	5	5	4	3	5	0	0	0	0	0	0	0			

ÖK5	3	1	1	5	5	5	4	3	5	0	0	0	0	0	0	0
ÖK6	3	1	1	5	5	5	4	3	5	0	0	0	0	0	0	0
ÖK7	3	1	1	5	5	5	4	3	5	0	0	0	0	0	0	0
ÖK8	3	1	1	5	5	5	4	3	5	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution				2 Iow		3	Medi	um	4 High			5 Very High			