HUMAN BIOLOGY

1	Course Title:	HUMAN BIOLOGY	
2	Course Code:	BYL4013	
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	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. SIBEL TAŞ	
15	Course Lecturers:	Prof. Dr. Sibel TAŞ	
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: smeral@uludag.edu.tr Telefon: 0 (224) 294 1795 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: smeral@uludag.edu.tr Phone: 0 (224) 294 1795	
17	Website:		
18	Objective of the Course:	The knowledge are given about essential of body chemistry, the cells basic units of life, tissues of body muscle tissue, the muscular system, bone and bone tissue, metabolism, nutrition, control, communication and coordination systems, organ systems and functions, immune system The structure of cells, tissues and organs and how these function to meet human biological requirements	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	The students learn organization of human body.
		2	They learn mechanism for transport across membranes.
		3	They learn skeletal muscle and smooth muscle.
		4	To get knowledge about hearth muscle, circulatory muscle and lymphatic system
		5	To get knowledge about excretory system.
		6	To get knowledge about blood cells.
		7	They learn general organization of nervous system.
		8	To get knowledge about somatic senses.
		9	
		10	
21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	The functional organization of human body, cell and its functions.	
2	Membrane physiology, ion- transport from cell membrane and action potential.	
3	Contraction of skelatal muscle, contraction of smooth muscle, neuromuscular transmission.	
4	Hearth muscle, stimulation of hearth and transmission of cardiac stimulus	
5	Circulatory system, blood flow control, micro-circulation and lymphatic system.	
6	Neural and hormonal regulation of circulation and control of arterial pressure.	
7	Kidneys, their functions and organization of body liquids.	
8	Erythrocytes, leukosytes, platelets, monocyte-macrophage system, inflammation.	
9	İmmunity and allergy, blood groups, hemostasis and blood coagulation.	
10	General organization of neural systems, functions of synapsis.	
11	Somatic senses.	
12	Motor and entegrative neurophysiology.	
13	Respiration, lung ventilation, O2-CO2	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	3	9.00	27.00
Homeworks	1	15.00	15.00
Projects	1	6.00	6.00
Field Studies	0	0.00	0.00
Midterm exams	1	19.00	19.00
Others	0	0.00	0.00
Final Exams	1	25.00	25.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	**NUMBE**	**WEIGHT**
Midterm Exam	1	40.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

22	Textbooks, References and/or Other 1-Medical physiology, William F Ganong, 2002 2-Dorothy Luciano,1997 3-Tıbbi Biyoloji, Ayse Basaran, İstanbul 1999 5-Yaşamın Temel Kuralları, Ali Demirsoy, Cilt II kısım I-II, Cilt III kısım I-II 2001 İsmail Türkan 2000
24	**ECTS / WORK LOAD TABLE**

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK2	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK3	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK4	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK5	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK6	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK7	3	1	1	5	5	5	4	3	5	5	5	4	0	0	0	0
ÖK8	3	1	1	5	5	5	4	4	4	5	5	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				