CITOLOGY

1	Course Title:	CITOLOGY	
2	Course Code:	BYL2001	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
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. Tolga Çavaş	
15	Course Lecturers:	Prof. Dr. Tolga ÇAVAŞ Prof. Dr. Nilüfer ÇİNKILIÇ Prof. Dr. Serap ÇELİKLER KASIMOĞULLARI	
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: tcavas@uludag.edu.tr Telefon: 0 224 294 1869 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: tcavas@uludag.edu.tr Phone: 0 224 294 1869	
17	Website:		
18	Objective of the Course:	The aim of the course is to provide basic and contemporary knowledge in the field of cell biology to undergraduate level students. The goals of the course are to teach the basic structure and organization of the cell, the functions of different cellular components in biological events within the cells.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Defines structural, molecular properties and classification of organisms
		2	Explains concepts not only in biology, but also in other sciences
		3	Defines the continuity and importance of relationship between environment and organisms as a whole and comprehends the place and responsibility of human beings in nature
		4	Applies scientific improvements and innovations in his/her scientific field
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Cell biology and history	
2	Development of microscope, general structure of the cell, prokaryotic-eukaryotic organisms	
3	Chemical structure of the cell, organic compounds, tools for analyzing biological structures	
4	Cell membranes and structural properties	
5	Function of the cell membrane, cell to cell adhesion, cell surface	
6	Apical surface changes in cell membrane, material transport, adhesion molecules	
7	Cytoplasm, components of cytoskeleton and cellular movement	
8	Structure and function of endoplasmic reticulum, golgi complex and microsomes	
9	Structure and function of mitochondria, mitochondrial DNA, cellular respiration	
11	Lysosome structure and function	
13	Ribosomes and protein synthesis	
22	Textbooks, References and/or Other	B. Alberts, vd. Molecular Biology of the Cell, 2002
23	Assessment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Quiz	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		

24	**ECTS / WORK LOAD TABLE**

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	2	15.00	30.00
Homeworks	0	0.00	0.00
Projects	1	15.00	15.00
Field Studies	0	0.00	0.00
Midterm exams	1	30.00	30.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			153.00
Total work load/ 30 hr			4.10
ECTS Credit of the Course			4.00

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	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**		**3 Medium**		**4 High**			**5 Very High**						