

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				
Activites			Number	Duration (hour)	Total Work Load (hour)
11	Theory Lectures		14	2.00	28.00
Practicals/Labs			0	0.00	0.00
13	Self study and preparation		2	15.00	30.00
Homeworks			0	0.00	0.00
22	Projects		1	15.00	15.00
Textbooks, References and/or Other			0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			1	30.00	30.00
Others			0	0.00	0.00
TERM LEARNING ACTIVITIES			NUMBER	WEIGHT	
Final Exams			1	20.00	20.00
Total Work Load					153.00
Total work load/ 30 hr			0	0.00	4.10
ECTS Credit of the Course					4.00
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				

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			