

EVOLUTION

1	Course Title:	EVOLUTION
2	Course Code:	BYL4002
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
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. NİLÜFER ÇİNKILIÇ
15	Course Lecturers:	Prof. Dr. Nilüfer ÇİNKILIÇ Doç. Dr. Özgür Vatan
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: aydemirn@uludag.edu.tr Telefon: 0 224 294 17 97 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: aydemirn@uludag.edu.tr Phone: 0 224 294 17 97
17	Website:	
18	Objective of the Course:	The core of evolution course consists of describing and analysing the history of evolution and of analysing its causes and mechanisms.
19	Contribution of the Course to Professional Development:	The student who takes the basis of Genetics courses at the Biology undergraduate level should have knowledge about the basis of life and the formation and life of human on Earth.
20	Learning Outcomes:	
	1	Comprehending that have common characteristics which molecular aspects of living organisms
	2	Learning the relationship between evolutionary biology and other biological disciplines
	3	Learning the causes of biodiversity between organisms
	4	Comprehending the relationship between living organism and environment and the effect of evolutionary processes of this relationship
	5	Comprehending the types of genetic altered at the population level and procedure of analyzed method of these altered
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21	Course Content:			
	Course Content:			
Week	Theoretical	Practice		
1	Introduction, Subject of the course and discussion			
2	History of evolutionary thought, evolution and philosophy			
3	An example for evolutionary mechanisms; Understanding HIV			
4	Origin of the Universe and the World			
5	Origin of life and the RNA World			
6	The RNA world and the evolution of the genetic code.			
7	The evolution of genomes and metabolism			
8	Evidence for evolution. Biogenetic basic rule			
9	Determination of kinship relations and Darwinist natural selection			
10	Population genetics, Hardy-Weinberg equation			
11	Effects of mutation, migration and selection mechanisms on Hardy Weinberg equation			
12	Effects of selfing and genetic drift			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
22	Textbooks, References and/or Other	1	Evrimsel Ders notları Prof. Dr. Rahmi BİLAL OĞLU	
Practicals/Labs		0	0.00	0.00
Self study and preperation		3	Evrimsel analiz S. Freeman, J. C. Herron 2002	42.00
Homeworks		5	5.00	25.00
Projects		2	10.00	20.00
Field Studies		0	0.00	0.00
Midterm exams		1	1.00	1.00
Others		0	0.00	0.00
Final Exams		0	1.00	1.00
Total Work Load				118.00
Total Workload/ 30 hr		1	60.00	3.90
ECTS Credit of the Course				4.00
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		Classical exam method is used in the measurement and evaluation of 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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	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			