

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Evolution							
Course Code	FBÖ403	Couse I	Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit 5	Workload 125 (F	Hours) Theory	2	Pra	ctice	0	Laboratory	0
Objectives of the Course To enrich evolution subject teaching curriculum schedu					fe and to d	connect with	science and tech	nology
Course Content Description of evolution, Development of evolution concept. Darwin's theory and new synthes Anorganic evolution, evolution of plant and animal. Adaptation, Variation, origin of variation: Necombination, migration, determined of genetic variation: cross experiments, artificial selection natural selection, habitat, seasonal-ethologic-mechanic-physologic isolation (Gametic mortality mechanisms. Postzygotic isolation mechanisms: zygotic mortalite, hybrid sterility, species for approaches: seconder species, primen spesies, allopatric species, parapatric species, human To enrich these subjects with examples from daily life and to connect with science and technologic species, primen species, primen spesies, allopatric species, parapatric species, human To enrich these subjects with examples from daily life and to connect with science and technologic species and technologic species are proposed to the species of th				in of variation: Mus, artificial selection artificial selection artificial selection artificial artificial selection artificial selection artificial artificial selection artific	itation, on,) ation evolution.			
Work Placement	N/A							
Planned Learning Activities and Teaching Methods		s Explana Solving	ition (Presen	tation),	, Discussio	on, Project E	Based Study, Prob	lem
Name of Lecturer(s)								

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	70			

Recommended or Required Reading

- Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi
- 2 Demirsoy A., Kalıtım ve Evrim, 1994

Neek	Weekly Detailed Cour	rse Contents				
1	Theoretical	Description of evolution, Development of evolution concept				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994				
2	Theoretical	Darwin's theory and new synthesis theory.				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994				
3	Theoretical	Anorganic evolution				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994				
4	Theoretical	evolution of plant and animal, adaptation, variation				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994				
5	Theoretical	Origin of variation: Mutation, Recombination, migration				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994				
6	Theoretical	determined of genetic variation: cross experiments				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi				
7	Theoretical	artificial selection, natural selection,				
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994				
8	Theoretical	habitat, seasonal-ethologic-mechanic-physologic isolation (Gametic mortalite) mechanisms.				



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8	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994
9	Intermediate Exam	midterm exam
10	Theoretical	Postzygotic isolation mechanisms: zygotic mortalite, hybrid sterility,
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994
11	Theoretical	species formation approaches: seconder species
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi
12	Theoretical	primen spesies,
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994
13	Theoretical	allopatric species, sympatric species, parapatric species,
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi Demirsoy A., Kalıtım ve Evrim, 1994
14	Theoretical	human evolution
	Preparation Work	Freeman S., Herron T.C., 2006, Evrimsel Analiz (Çeviri: S. Karaytuğ, İ. Gündüz, B.Çıplak, H.H. Başıbüyük.) Palme Yayınevi
15	Final Exam	FINAL EXAM

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Assignment	14	0	2	28	
Term Project	3	0	5	15	
Reading	14	0	3	42	
Midterm Examination	1	5	1	6	
Final Examination	1	5	1	6	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes						
1	be able to know development of evolution concept.					
2	be able to understand evolution of plant and animals.					
3	be able to know basic evolution concept					
4	be able to connect 8 with science and technology teaching curriculum scheduled in 4.and 8 classes					
5	know the laws of evolution.					

Progr	ramme Outcomes (Science Teacher Education)				
1	To be able to gain subject knowledge of profession in theory and practice in the learning process.				
2	To be able to gain the competence of using the appropriate approach, strategy, method and technique for the instructional plans to be prepared in the learning process.				
3	To be able to gain the skills of the teaching profession in the learning process.				
4	To be able to implement teaching profession knowledge, skills, attitudes and habits related to the subject-matter in a real teaching and learning environment in the learning process.				
5	To be able to comprehend contemporary approaches of education and the philosophy they are based on.				
6	To be able to gain the basic skills such as comprehending, expressing, commenting, evaluating, being aware and enterprising, communicating, acknowledging the individual related to the subject-matter.				
7	To be able to become individuals faithful to the Principles and Revolutions of Ataturk, be modern democratic, secular, protecting and developing one's country, being alive to the nation, respecting human rights, preserving the nature, not being discriminatory, giving importance to the traditions and customs, protecting the values				
8	To be able to improve oneself in terms of sport, art and culture.				
9	To be able to become individuals believing in lifelong learning.				



To be able to gain the vision of being individuals who keep up with developments in social, economic, technological and scientific areas, who investigate the main reasons of World problems and try to contribute to the solutions of these problems.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4
P1	5	5	5	5
P6	4	5	5	4
P10	4	4	5	5

