



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Evolution							
Course Code		ÇS309		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		1. To inform about earth's formation and the formation of the lives on earth, also about Darwin's evolution theory and different opinions on this issue. 2. To be presented the factors that influence the formation of new species and the evidence of the evolutionary changes. 3. To inform about the issues that the works are done in the today's evolutionary genetics field how it affects / can affect.							
Course Content		Definition of the Evolution, historical development and change of this concept. Darwin's theory of evolution, the new synthesis theory. Inorganic and organic evolution. Evidences that are supporting to the evolution. Speciation and speciation models. Cultural evolution and human evolution.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Sevil ÖZCAN							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Evolution (2008) Douglas J. Futuyma (Trans. Aykut Kence, A. Nihat Bozcuk), Palme Publ.
2	Basic Rules of The Life Volume.1 / Part.1 (2004) Ali Demirsoy, Meteksan
3	Heredity and Evolution (2007) Ali Demirsoy, Meteksan

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of the evolution, and development and history of evolution concept.
2	Theoretical	Darwin's evolution theory and different opinions related to formation of the living organisms on earth.
3	Theoretical	Inorganic evolution, the opinions related to the formation of the solar system and Earth.
4	Theoretical	Organic evolution.
5	Theoretical	The crude material of evolution (mutation, recombination). The mechanisms that providing evolution (such as natural selection, selection based on the ability to reproduction, isolation, genetic drift).
6	Theoretical	The evidences that support to the evolution.
7	Theoretical	The evidences that support to the evolution.
8	Theoretical	Midterm
9	Theoretical	Models of the speciations.
10	Theoretical	Compliance, progressive evolution, parallel evolution, narrowing evolution. Pre-adaptation and some examples for important adaptation types.
11	Theoretical	Cladogenesis, Anagenesis and some species concepts. The situations that cause speciation by preventing the gene flowing.
12	Theoretical	In the context of the life- tree, monitoring the evolutionary path which is from the common ancestor of all living to Homo sapiens, and monitoring of the bifurcations due to evolution.
13	Theoretical	Evolution of the mitosis.
14	Theoretical	Cultural evolution.
15	Theoretical	The studies are done nowadays, and their importance for evolution

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	10	1	11



Final Examination	1	10	1	11
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Knows that organic and inorganic evolution.
2	Knows that mutations can occur in living organisms depending on the living conditions, and consequently knows that evolutionary changes can occur.
3	Knows that different theories about the formation of the living organisms.
4	Knows the basic evolutionary concepts such as mutation, variation and modification.
5	Knows different views about the formation of living things on earth.

Programme Outcomes (First and Emergency Aid)

1	To be able to be aware of their professional authorities and responsibilities.
2	To be able to use the principles of individual and organizational communication skills.
3	To be able to define the emergency medical services and the pre-hospital emergency medical system devices used in Turkey and the world .
4	To be able to perform physical assessment of the patient and primary and secondary inspection.
5	To be able to apply the methods of handling and transportation of the patient
6	To be able to recognize the rules of the general approach to trauma patients and to be able to be capable of handling and maintenance of trauma equipment.
7	To be able to recognize emergency vehicles' mechanical and technical equipment and to be able to drive emergency vehicles.
8	To be able to identify the principles of pre-hospital emergency care in cases of environmental emergencies.
9	To be able to identify the principles of pre-hospital emergency care in medical emergencies.
10	To be able to analyze the ECG rhythm and apply the principles of pre-hospital emergency care for rhythm Disorders.
11	To be able to recognize and apply the pre-hospital emergency care drugs and fluids.
12	To be able to identify basic life support applications, Advanced Life Support applications and Advanced air way applications.
13	To be able to recognize the principles of pre-hospital emergency during disasters.
14	To be able to protect and maintain the highest level of physical and mental health.
15	To be able to recognize human anatomy and physiology.
16	To be able to develop good communication and human relations skills with colleagues and patients.
17	To be able to apply Infection Control Methods and check infectious situations of emergency vehicles and equipment, ensure the conditions of asepsis-antisepsis and pre-hospital emergency care with Infectious Diseases.
18	To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

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

	L1	L2	L3	L4	L5
P1	1	1	1	1	1
P2	1	1	1	1	1
P3	1	1	1	1	1
P4	2	2	2	2	2
P5	1	1	1	1	1
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	1	1	1	1	1
P9	1	1	1	1	1
P10	1	1	1	1	1
P11	1	1	1	1	1
P12	1	1	1	1	1
P13	1	1	1	1	1
P14	2	2	2	2	2
P15	4	4	4	4	4
P16	3	3	3	3	3
P17	2	2	2	2	2

