

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title									
Course Code	FBÖ401		Couse Leve	l	First Cycle (Bachelor's Degree)				
ECTS Credit 5	Workload 125 (Hours)		Theory	2	Practice	0	Laboratory	0	
Objectives of the Course	Information on	recent devel	opments and	current is:	sues in biology	,			
Course Content	organ donation cosmetic prod environmental Chemical subs	n. The importa ucts, processo ly harmful sub stances (drugs single-celled,	ance of biologes and effect ostances. Re s, dyes, dete house mites,	gy, society s on nature ady food, a rgents), ar insects) a	, science and to e. Use of micro and the danger and biological effond and health effect	echnology. organisms s of the pre fects. Close	ce of organ transp Development of d in the elimination of paration processe to the organisms al sensors. Geneti	rugs and of s. in our	
Work Placement	N/A								
Planned Learning Activities	and Teaching I	Methods	Explanation	(Presenta	tion), Discussi	on, Project I	Based Study		
Name of Lecturer(s)									

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

Recommended or Required Reading

1 Fikriye Polat. Biyolojide Özel Konular, Pegem A Yayınları, 2010

Week	Weekly Detailed Course Contents									
1	Theoretical Genetically modified organisms									
	Preparation Work									
2	Theoretical	Stem cell technology								
	Preparation Work									
3	Theoretical	Organ transplants and organ donation								
	Preparation Work									
4	Theoretical	Importance of biology about community, science and technology								
	Preparation Work									
5	Theoretical	Development process of medicine and cosmetics								
	Preparation Work									
6	Theoretical	Effects of medicine and cosmetics on nature								
	Preparation Work									
7	Theoretical	Use of microorganisms for the elimination of environmentally harmful substances								
	Preparation Work									
8	Theoretical	Ready food, and the dangers of the preparation processes.								
	Preparation Work									
9	Preparation Work									
	Intermediate Exam	Midterm exam								
10	Theoretical	Chemical substances (drugs, dyes, detergents), and biological effects								
	Preparation Work									
11	Theoretical	Organisms in our close environment (single-celled, house mites, insects)								
	Preparation Work									
12	Theoretical	Biological sensors Genetic duplication								
	Preparation Work									
13	Theoretical	Use of nanotechnology in biology								
	Preparation Work									
14	Theoretical	Bioinformatics								



14	Preparation Work		
15	Theoretical	Bioinformatics	
	Preparation Work		
16	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	
		To	otal Workload (Hours)	125	
	5				
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	Genetically modified organisms
2	Stem cell technology
3	Organ transplants and organ donation
4	Importance of biology about community, science and technology
5	Development process of medicine and cosmetics
6	Effects of medicine and cosmetics on nature
7	Food preparation processes and hazards.
8	Chemical substances' (drugs, dyes, detergents) biological effects
9	organisms in our close environment (single-celled, house mites, insects)
10	Comparison of biological sensors
11	
12	

D	mana Outcomes (Caianas Tasakay Education)
Program	mme Outcomes (Science Teacher Education)
1 7	To be able to gain subject knowledge of profession in theory and practice in the learning process.
	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 7	To be able to gain the skills of the teaching profession in the learning process.
	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 7	To be able to comprehend contemporary approaches of education and the philosophy they are based on.
	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 p	To be able to become individuals faithful to the Principles and Revolutions of Ataturk, be modern democratic, secular, protecting and deveoping 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 7	To be able to improve oneself in terms of sport, art and culture.
9 7	To be able to become individuals believing in lifelong learning.
10 s	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.

Contri	bution	of Lea	rning (Dutcon	nes to I	Progra	mme O	utcom	es 1:Ve	ery Low	, 2:L	.ow, 3:Medium, 4	:High, 5:Very	High	
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10					
P1	4	4	4	5	5	5	4	5	5	5					

