

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biology II							
Course Code		FBÖ253		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit 4		Workload	100 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		Introduction to metabolism, cell respiration and fermentation; photosynthesis; comparison of cell respiration and photosynthesis; Animal structure and function of animal tissue and systems will be covered.							
Course Content		respiration and reproduction in comparison of cardiac, vascu- and respirator animals and d and periphera- touch; endocri	d photosynthen animals; nut animals with lar and blood y mechanism iversity in excl nervous system, he system, he and intern	esis; animal s trition and did circulatory si structures; g s; compariso tretory syster tem; sensory ormones, fee tal skeleton, f	tructure an gestion in a ystem, ope las exchan of excretins; nervous mechanisidback, funcypes of bo	nd function; repainmals, nutrition and closed of ge in animals, ory system, oze system in thems, hearing anctions of hormones, joints, mu	productive sy onal mechan circulatory sy respiratory sy moregulatio e animals, ne ad balance, v ones; suppo	comparison of cel /stem, asexual and isms in animals; /stem, examination surfaces, respiraton, excretion produ ervous system type /ision, sniffing and rt and movement sund mechanisms o	n of ory organs cts in es, central taste, systems in
Work Placement		N/A							
Planned Learning Activities					on (Presentation), Experiment, Demonstration, Discussion, Case dividual Study			n, Case	
Name of Lecturer(s)									

Assessment Methods and Criteria						
Method		Quantity	Percentage (%)			
Midterm Examination		1	40			
Final Examination		1	60			

Recommended or Required Reading							
1	Campbell, N., Reece, J. Biyoloji, Palme Yayınevi, 2017.						
2	Karaçay, B., Yaşamın Sırrı DNA, TÜBİTAK Popüler Bilim Kitapları 333, 2013.						
3	Öğretim üyesinin derlediği ders notları						
4	İnternet Kaynakları; www.evrimagaci.com						

Weekly Detailed Co	urse Contents
Theoretical	1 Course contents and definition
Theoretical	2 Introduction to metabolism; General information about the laboratory
Theoretical	3 Cell respiration and fermentation and open and closed-ended experiments
Theoretical	4 Comparison of photosynthesis, cell respiration and photosynthesis and open and closed-ended experiments for these subjects
Theoretical	5 Animal tissues and open and closed-ended experiments
Theoretical	6 Reproductive system in animals, asexual and sexual reproduction in animals and open and closed-ended experiments.
Theoretical	7 Nutrition and digestion in animals, nutrition mechanisms in animals and open and closed-ended experiments on these subjects
Theoretical	Midterm
Theoretical	9 Comparison of animals with circulatory system, open and closed circulatory system, examination of cardiac, vascular and blood structures and open and closed-ended experiments.
Theoretical	10 Gas exchange in animals, respiratory surfaces, respiratory organs and respiratory mechanisms and open and closed-ended experiments
Theoretical	11 Discharge system in animals, ozmoregulation, comparison of excretory products and diversity in excretory systems and open and closed end experiments for these subjects
Theoretical	12 Nervous system in nervous system, nervous system types, central and peripheral nervous system and open and closed-ended experiments
Theoretical	13 Sensory mechanisms, hearing and balance, vision, sniffing and taste, touch and open and closed-ended experiments
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14	Theoretical	14 Endocrine system, hormones, feedback, functions of hormones and open and closed-ended experiments for these subjects
15	Theoretical	15 Support and movement systems in animals, external and internal skeleton, bone types, joints, muscle types and contraction mechanism and open and closed-ended experiments for these subjects
16	Final Exam	Final

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	0	2	28		
Lecture - Practice	14	0	2	28		
Assignment	11	0	2	22		
Reading	8	0	1	8		
Midterm Examination	1	0	6	6		
Final Examination	1	0	8	8		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = <b>ECTS</b>						
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes						
1	1. Introduction to metabolism					
2	2. Cell respiration and fermentation					
3	3. Photosynthesis					
4	4. Comparison of cell respiration and photosynthesis					
5	5. Animal structure and function of animal tissues and systems					

Progr	amme 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 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	To be able to improve oneself in terms of sport, art and culture.
9	To be able to become individuals believing in lifelong learning.
10	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	L5
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	4	4	4
P6	4	4	5	4	5
P7	5	5	4	4	4
P8	4	4	5	5	5
P9	5	5	4	5	4
P10	4	4	4	5	5

