BIOLOGY II

1	Course Title:	BIOLOGY II
2	Course Code:	FEN2205
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. MUSTAFA ÖZKAN
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Prof. Dr. Mustafa ÖZKAN Bursa Uludağ Üniversitesi Eğitim Fakültesi Matematik ve Fen Bilimleri Bölümü Fen Bilgisi Anabilim dalı Öğretim Üyesi Tel :40683
17	Website:	
18	Objective of the Course:	The objectives of this lesson are: To introduce the structures of the organ systems of animal organisms To explain how the organ systems of animal organisms operate
19	Contribution of the Course to Professional Development:	This course will provide students with an advanced level of theoretical, methodological and factual knowledge in the field of "Teaching Profession General Competencies" and "Professional Knowledge" in a way that includes an interrogative perspective. In addition, this course contributes to the students' ability to acquire competencies specific to the field, by enabling them to obtain advanced theoretical knowledge from the basic field of teacher training and educational sciences and the ability to use them.
20	Learning Outcomes:	
	1	The students will learn the differences between living and non-living and between plants and animals.
	2	The students will explain and compare the classification of animals and sexual and asexual reproduction.
	3	The students will have information about animal tissues
	4	The students will describe feeding mechanisms and digestion in animals
	5	The students will describe the types, structures and functions of circulation in animals.
	6	The students will explain how and with what mechanisms animals realize gas exchange
	7	The students will compare and explain excretory systems and products in animals
	8	The students will explain the nervous systems and sensory mechanisms in animals with their structure and functions
	9	The students will explain the structure and functions of the endocrine system

	10	The students will explain the structures and functions of support and movement systems in animals
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Differences between animate and inanimate and between plants and animals	Microscope and Parts, Measuring under the microscope
2	Classification of living things	Protista, Euglena, Plathelminthes
3	Tissues and their features in animals	Cell concept, tongue and cheek epithelial cell, frog epithelial cell
4	Tissues and their features in animals	Bone tissue, cartilage tissue
5	Reproduction, fertilization and development in animals	Blood tissue, blood types, muscle tissue
6	Reproduction, fertilization and development in animals	Mitosis and meiosis
7	Respiratory system in animals	Respiratory test
8	Midterm Exam	Midterm Exam
9	Excretory system in animals	Excretory organs
10	Circulatory system in animals	Frog dissection
11	Nervous system in animals	Earthworm examination
12	Nutrition and digestion in animals	Examination of fish internal organs
13	Endocrine system	Studying the human model

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	6	6.00	36.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	16.00	16.00
Total Work Load			128.00
Total work load/ 30 hr			3.93
ECTS Credit of the Course			4.00

22 Textbooks, References and/or Other Materials:	Gündüz E., Demirsoy A., Türkan İ) 6. Baskı 2006, Palme (Çeviri Ed. Ali Demirsoy ve İsmail Türkkan) Palme Hacettepe Üniversitesi Yayınları A/52. 1985, Ankara
23 Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	40.00
Home work-project	0	0.00
Total	2	100.00

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	In the teaching of the course, an instruction method, including scientific process skills such as making observations in the laboratory, collecting data, recording data and making conclusions, will be used. There will be a midterm and a final exam in the semester. Exam grades will be subjected to relative evaluation by entering the automation system.

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	5	5	4	4	5	5	4	4	4	3	2	2	1	1	1	1
ÖK2	5	5	4	5	5	5	4	4	4	3	2	1	1	1	1	1
ÖK3	4	5	4	5	5	5	5	5	4	3	2	2	1	1	1	1
ÖK4	4	5	3	5	5	5	5	4	5	3	2	1	1	1	1	1
ÖK5	4	5	4	5	5	4	4	5	4	3	1	2	1	1	1	1
ÖK6	4	5	4	5	5	4	4	4	5	4	2	1	1	1	1	1
ÖK7	4	5	4	5	5	5	5	4	4	3	2	1	1	1	1	1
ÖK8	4	5	4	5	5	5	4	4	4	3	2	1	1	1	1	1
ÖK9	4	5	4	5	5	5	4	4	4	3	2	1	1	1	1	1
ÖK10	4	5	4	5	5	5	5	5	4	4	2	2	1	1	1	1
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				