

GENERAL BIOLOGY (ZOOLOGY) LAB

1	Course Title:	GENERAL BIOLOGY (ZOOLOGY) LAB
2	Course Code:	BYL1052
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	2.00
8	Theoretical (hour/week):	0.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	2
11	Prerequisites:	BYL 1002 General Biology (Zoology)
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Hikmet Sami Yıldırımhan
15	Course Lecturers:	Prof. Dr. Hikmet Sami Yıldırımhan Prof. Dr. Sibel TAŞ Dr. Öğr. Üyesi Rahşen S. KAYA
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: yhikmet@uludag.edu.tr Telefon: 0 224 294 17 90 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: yhikmet@uludag.edu.tr Phone: 0 224 294 17 90
17	Website:	
18	Objective of the Course:	The objective of this lesson is to equip students with knowledge about cell. Students become able to classify tissues and learn the places of the tissues in the body. Students get knowledge about organs in animals systems. To give information about the basic characteristics of human and animal bodies.
19	Contribution of the Course to Professional Development:	To have general knowledge about animal cell, tissues, systems and principles of animal classification.
20	Learning Outcomes:	
	1	The students learn cell and general structures.
	2	They learn the differences between cell and tissues
	3	They learn mechanism of cleavage and reproduction.
	4	They learn the animals from single-celled to multicell animals.
	5	They learn tissue and its types
	6	They identify some species of vertebrate and invertebrate animals and learn how to make dissection
	7	They learn functions of tissue and organ system
	8	They learn metabolism.
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21	Course Content:		
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Week	Theoretical	Practice	
1		The rules which students must obey and the general rules when they prepare the reports.- Have students prepare report	
2		The introducing microscope, the giving knowledge about the sections of microscope, the using microscope, the instructions of some terms .- Introducing microscope practical. Observing reference preparation.	
3		Cell, free-cell and tissue samples.- The observation with preparation	
4		Cell division, cell cycle and mitosis-meiosis division.- The observation with preparation	
5		Giant kromosomes, the reproduction cell of frog, spermatozoit, types of egg.- The observation with preparation	
6		Tissues: Epitelial tissue, frog epiderm, blood tissue .- The observation with preparation	
7		Tissues: Cartilage tissue, bone tissue, muscle tissue .- The observation with preparation	
8		Midterm exam and review.	
9		Protozoa (Single-celled organisms) Amoeba, Paramecium, Euglena.- The observation with preparation	
10		Phylum: Plathelminthes Trematoda/ Cestoda . - The observation with preparation	
11		Phylum: Nemathelminthes Phylum: Acanthocephala . - The observation with preparation	
12		Phylum: Annelida Lumbricus terrestris . - Dissection and observing	
13		Phylum: Arthropoda Cockroach . - Dissection and observing	
14		Phylum: Chordata Frog . - Dissection and observing	
22	Textbooks, References and/or Other Materials:	Tanyolaç J. & T. Tanyolaç, 1986. Genel Zooloji. Hatipoğlu Yayınevi, Ankara , 472s Uludağ Üniversitesi Genel biyoloji (Zooloji) Lab. Kılavuzu.	
23	Assesment		
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT
Midterm Exam		1	25.00
Quiz		3	15.00
Home work-project		0	0.00
Final Exam		1	60.00
Total		5	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	

24	ECTS / WORK LOAD TABLE
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	0	0.00	0.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	2	5.00	10.00
Homeworks	14	1.00	14.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	4.00	4.00
Others	0	0.00	0.00
Final Exams	1	4.00	4.00
Total Work Load			60.00
Total work load/ 30 hr			2.00
ECTS Credit of the Course			2.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS
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	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	1	4	5	3	5	4	5	3	4	5	5	0	0	0	0
ÖK2	3	2	4	5	3	5	4	5	4	4	5	5	0	0	0	0
ÖK3	5	1	4	5	2	5	4	4	3	5	5	5	0	0	0	0
ÖK4	4	3	5	5	3	4	4	4	4	4	5	5	0	0	0	0
ÖK5	5	1	5	5	3	5	4	4	3	4	5	5	0	0	0	0
ÖK6	5	2	5	5	3	5	4	5	5	5	5	5	0	0	0	0
ÖK7	4	3	4	5	3	5	4	5	5	5	5	5	0	0	0	0
ÖK8	5	3	4	5	3	4	4	5	4	5	5	5	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
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