DERS TANITIM ve UYGULAMA BİLGİLERİ

Dersin Adı	Kodu	Yarıyıl	T+U+L (saat/hafta)	Türü (Z / S)	Yerel Kredi	AKTS			
Biyoloji I	BGE 106	Bahar	03+00+00	Zorunlu	3	6			
Akademik Birim:		Bioinformatics ar	Bioinformatics and Genetics						
Öğrenim Türü:		Örgün Eğitim							
Ön Koşullar		none							
Öğrenim Dili:		İngilizce							
Dersin Düzeyi:		Lisans							
Dersin Koordinatörü:		Ebru BİLGET GÜV	Ebru BİLGET GÜVEN						
Dersin Amacı:		general experime fundamental feat	To teach the basic concepts of biology, asking scientific questions, the scientific method, the general experimental design and scientific reporting. To make the students perceive life, fundamental features of organisms and basic biological mechanisms. To teach the basic molecular aspects of biology, which are critical to understand cell biology, bioinformatics and genetics.						
Dersin İçeriği:						lecules of life,			
Dersin İçeriği: Dersin Öğrenme Çıktıları (ÖÇ):		 highlights evolution deductive 2- The Ch later disc systems. definition 3- Water water. Ch processes molecule among w environm solutions, 4- Carbor chemical and conce more det unparalle Student u describin construct 5- The St concept of recognize proteins, 6- A Tour of a cell. 7- Memble student b describin 8- An Intr discusses potential entropy. 9- Cellula oxidative 	 7- Membrane Structure and Function: In this part information is given to let the student be able to understand the structure and function of the membrane by describing diffusion, osmosis, and active transport. 8- An Introduction to Metabolism: The work of a cell requires energy and this part discusses how a cell works. The student should be able to distinguish kinetic and potential energy, state the first and second laws of thermodynamics and understand 						
Dersin Öğrenme Teknikleri	Yöntem ve	which are also sh concepts on the during the lectur	PowerPoint presentations including important images and daily examples about the subject, which are also shared with the students through the BlackBoard platform. Explaining the concepts on the board. (students are allowed to take photos). Conversation with the students during the lecture. Watching mechanistic/explanatory videos during lectures and discussing with students. Suggesting videos to watch later.						

HAFTALIK PROGRAM

Hafta	Konular	Ön Hazırlık	ÖÇ
1	INTRODUCTION TO THE COURSE	Presentation	1
2	Chapter 1: Biology: Exploring Life	Presentation	2
3	Chapter 1: Biology: Exploring Life	Presentation, Quiz	3
4	Chapter 2: The Chemical Basis of Life	Presentation	4
5	Chapter 2: The Chemical Basis of Life	Presentation	5
6	Chapter 3: The Molecules of Cells	Presentation, Assignment	6
7	Chapter 3: The Molecules of Cells	Presentation, Midterm	6
8	Chapter 4: A Tour of the Cell	Presentation	7
9	Chapter 4: A Tour of the Cell	Presentation	7
10	Chapter 5: The Working Cell	Presentation, Quiz	8
11	Chapter 5: The Working Cell	Presentation	9
12	Chapter 6: How Cells Harvest Chemical Energy	Presentation, Assignment	9
13	Chapter 6: How Cells Harvest Chemical Energy	Presentation, Quiz	10
14	Chapter 6: How Cells Harvest Chemical Energy	Presentation, Quiz	10

Kadir Has Üniversitesi'nde bir dönem 14 haftadır, 15. ve 16. hafta sınav haftalarıdır.

ZORUNLU ve ÖNERİLEN OKUMALAR

Required Textbook

Year/Edition: International Edition (7th Edition)

Title: Campbell Biology: Concepts and Connections Author(s): Campbell, Reece, Taylor, Simon, Dickey Publisher: Pearson

DİĞER KAYNAKLAR

DEĞERLENDİRME SİSTEMİ

Yarıyıl İçi Çalışmaları	Sayı	Katkı Payı (%)
Katılım	14	-
Ödev	1	15

Final Sınavı	1	40
Ara Sınavlar	1	25
Kısa Sınavlar	2	20
Total:	19	100

İŞ YÜKÜ HESAPLAMASI

Etkinlikler Sayısı		Süresi (saat)	Toplam İş Yükü (saat)	
Ders Saati	14	3	42	
Ödev	1	12	12	
Final Sınavı	1	30	30	
Ara Sınavlar	1	25	25	
Kısa Sınavlar	2	8	16	
Toplam İş Yükü (saat):			125	

1 AKTS = 25 saatlik iş yükü

PROGRAM YETERLİLİKLERİ (PY) ve ÖĞRENME ÇIKTILARI (ÖÇ) İLİŞKİSİ

#	PY1	PY2	PY3	PY4	PY5	PY6	PY7	PY8
OC1								
OC2								
OC3								
OC4								
OC5								
OC6								
OC7								
OC8								
OC9								

Katkı Düzeyi: 1 Düşük, 2 Orta, 3 Yüksek