

BALIKESIR UNIVERSITY
NECATİBEY EDUCATION FACULTY
UNIVERSITY ELECTIVE COURSE PROPOSAL FORM

Department/Program	Mathematics and Science Education/ Science Education	
Course unit title	Green Nature	
Semester		
Language of instruction	Turkish	
Credit	2	
Number of ECTS credits	3	
Mode of delivery	Face to face	
Objectives of the course	To assist acknowledging nature by using inter disciplinary methods, To predict future life by examining history of nature and present situation, To realize what to do for nature and human individually and socially for the present and future time	
Course content	Environmental education via nature of science and exercise, health, education and design applications in the nature.	
Prerequisites and co-requisites	---	
Name of lecturer	Assoc.Prof.Dr. Serap Öz Aydın	e-mail: soz@balikesir.edu.tr
Assistants	---	e-mail:---
Internship	---	
Resources	1. Campbell-Reece (2008) Biyoloji, Palme Yayıncılık, Ankara 2. Paul D. Taylor (1999) Fosiller, TÜBİTAK Popüler Bilim Kitapları 190, Ankara 3. Temizkan Güler , (1999) Genetik (II Moleküler Genetik), İ. Ü. Fen Fak Basımevi, İstanbul 4. Klug W. S., Cummings, M. R., Çev. Öner, C., (2002).Genetik, Palme Yayıncılık, Ankara 5. Keeton-Gould (2003) Genel Biyoloji, Palme Yayıncılık, Ankara 6. Yalçın Şahin (2007) Biyolojide Geçmiş Yolculuk, Palme Yayıncılık, Ankara	
Type of course unit	Elective	

Planning learning activities and teaching methods			Active learning based activities, group discussion, class discussion.			
Assessment methods and criteria			ECTS allocated based on student workload			
In-term studies	Quantity	Percentage (%)	Activities	Quantity	Duration	Total work load (hours)
Mid-terms	1	40	Course duration	14	3	42
Quizzes			Hours for off-the-c.r.stud	14	3	42
Assignment	3	60	Mid-terms	1	2	2
Attendance			Final exams	1	2	2
Practice			Total work load (hours): 88			
Project			Number of ECTS credits: 3			
Final exam	1	60 (elective)				
Learning outcomes		- To explain the procedures on the formation of liveliness. - To utilize an analogy related to the length of the time from the formation of the Universe up to now. - To infer a conclusion about the changes that the World has faced from 4 millar years ago to present by using fossil evidences. - To discuss about knowledge related to past that can be obtained from a fossil. - To explain basic properties related to the classification of living things. - To explain the definitions of different dimensions of biodiversity. - To realize the significance of biodiversity. - To realize that a variety of species has become extinct from past to present. - To acknowledge the increase in the rate of extinction of the species and its reasons. - To be competent of technical knowledge related to photography of various living things and natural events. - To realize the significance of the utilization of nature for physical and psychological health (in the fields of poem, story, art, photography, sports)				
Weekly detailed course contents						

Weeks	Topics	Prerequisites	Resources
1	Nature, science of nature, green exercise and introduction to the green design subjects	-	Textbook resources
2	History of life	-	Textbook resources
3	Time passed for the formation of the Universe and the World	-	Textbook resources
4	Changes that Earth faced	-	Textbook resources
5	Fossils and fossilization	-	Textbook resources
6	Biodiversity: Definitions and Significance	-	Textbook resources
7	Biodiversity: Classification, Phylogeny	-	Textbook resources
8	Biodiversity: The origin of genetic diversity	-	Textbook resources
9	World's Carrying Capacity, Ecological footprint, Carbon footprint, Water footprint	-	Textbook resources
10	The case of biodiversity in the World and in Turkey	-	Textbook resources
11	Green education	-	Textbook resources
12	Green exercise	-	Textbook resources
13	Green treatment	-	Textbook resources
14	Green design	-	Textbook resources
Contribution of learning outcomes to program outcome		1. To be scientifically literate. To be open to new developments. To understand the relationship among science and to use all science for the benefit of human 2. To comprehend the living nature 3. To assume that nature is always in a change and movement and to develop methods for human to fit this situation	