



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
MATHEMATICS AND SCIENCE EDUCATION
SCIENCE EDUCATION
SCIENCE EDUCATION MASTER
COURSE INFORMATION FORM

Course Title	BioDiversity								
Course Code	İFB523		Course Level		Second Cycle (Master's Degree)				
ECTS Credit	8	Workload	199 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	To learn all aspects of the concept of biological diversity To better understand the consequences of biodiversity loss Conservation of biodiversity-related knowledge to work								
Course Content	Today one of the most common points in conservation/sustainability is biological diversity. This term has been included as a target in conservation strategies since the conference in Rio de Janeiro in 1992. Biodiversity is considered to be a great capital asset worldwide with possible and sustainable benefits. The loss of biodiversity is global issue and it's being arranged with international regulations. If the nutrition need for the whole world's population is considered, plant derived genetic resources are really important for food and agriculture. Therefore, understanding these properties and analyzing them with a geographical perspective is the primary objective.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Project Based Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Prof. Hatice ÖZENOĞLU								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Işık, K. 1996. Biyolojik Çeşitlilik ve Orman Gen kaynaklarımız (Biological Diversity and Our Forest Genetic Resources). Orman Bakanlığı Yayını , No. 13, Ankara, 120 pp.
2	Işık, K. 1997. Biyolojik Çeşitlilik (Biodiversity). Bilim ve Teknik. TÜBİTAK. Ankara, 30 (350): 84-87
3	TÇV. 1990. Türkiye'nin Biyolojik Zenginlikleri (Ed.: a.Kence), TCV. Yayını. Ankara, 318 ss.
4	Çepel, N. 1992. Doğa, Çevre, Ekoloji ve İnsanlığın Ekolojik Sorunları. Altın Kitaplar Yayınevi, İstanbul.
5	Ekim T, Koyuncu M, Vural M, Duman H, Aytac Z, Adiguzel N, 2000, Türkiye Bitkileri Kırmızı Kitabı.
6	Seçmen, Ö. (1997) Türkiye Sulak Alan Bitkileri ve Bitki Örtüsü. İzmir: Ege Üniversitesi

Week	Weekly Detailed Course Contents	
1	Theoretical	What is the Biological Diversity?
2	Theoretical	Economic Value of Biological Diversity
3	Theoretical	Protection of Basic Principles of Genetic Diversity
4	Theoretical	Conservation of species and species community
5	Theoretical	Conservation of Natural Areas
6	Theoretical	Biological Diversity of Turkey
7	Theoretical	National Parks
8	Intermediate Exam	MIDTERM EXAM
9	Theoretical	Natural Protection Areas
10	Theoretical	Nature Parks
11	Theoretical	Animal Genetic Resources
12	Theoretical	Plant Genetic Resources
13	Theoretical	Endemic Species Conservation Policy
14	Theoretical	Threats on the Genetic Diversity
15	Theoretical	Threats on the Genetic Diversity
16	Final Exam	TERM



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	1	28	2	30
Reading	4	20	0	80
Quiz	1	4	1	5
Midterm Examination	1	5	1	6
Final Examination	1	6	2	8
Total Workload (Hours)				199
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to learn all aspects of the concept of biological diversity
2	To be able to learn concept of biological diversity elements
3	To be able to learn importance of biological diversity
4	To be able to learn importance of biological diversity a country
5	To be able to learn importance of biological diversity for the future of human

Programme Outcomes (Science Education Master)

1	To be able to have an expert theoretical knowledge within the field of science education.
2	To be able to transfer expert knowledge gained in science education into various instructional environment.
3	To be able to integrate science education knowledge with the other disciplines and product functional knowledge
4	To be able to use information and communication technologies efficiently in conceptual learning
5	To be able to find scientific solutions to the problems in the field of science education
6	To be able to evaluate the knowledge critically in the field
7	To be able to participate in team projects in the science education field
8	To be able to adopt lifelong learning strategies to his/her studies
9	To be able to use at least one foreign language efficiently in oral and verbal communication
10	To be able to share national and international data in the field of science education
11	To be able to comprehend and evaluate science-technology-society and environment interactions
12	To be able to comprehends science under the ethical values and take account of ethical considerations
13	To be able to use scientific information in the other domains that is gained in the masters field and have the transfer skills
14	To be able to follow the current development in the science education field
15	To be able to develop strategical plans and evaluate them in the context of quality processes

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	1	1	1
P2	1	1	5	5	5
P3	3	3	3	3	3
P4	4	4	4	4	4
P5	1	1	3	3	3
P6	5	5	5	5	5
P7	2	2	2	2	2
P8	4	4	4	4	4
P9	1	1	1	1	1
P10	4	4	4	4	4
P11	5	5	5	5	5
P12	4	4	4	4	4
P13	3	3	3	3	3
P14	5	5	5	5	5
P15	4	4	4	4	4

