



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Standard Methods For Measuring and Monitoring Amphibians							
Course Code		BiO605		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	178 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		The aim of this course is to get the students acquainted with measuring and monitoring techniques of amphibian biodiversity							
Course Content		Biodiversity of amphibians, measurement and standardization, monitoring methods, stocktaking, marking, measure of population size.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Measuring and Monitoring Biological Diversity, Standard Methods for Amphibians, Heyer, W. R., M. A. Donnelly, R. W. McDiarmid, L. A. C. Hayek and M. S. Foster, Smithsonian Institution Press, Washington and London, 1993.
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Week	Weekly Detailed Course Contents	
1	Theoretical	Amphibian diversity and natural history
	Preparation Work	Introduction to field equipments and supplies
2	Theoretical	Gymnophiona, Caudata and Anura orders, amphibian larvae
	Preparation Work	Handling live amphibians
3	Theoretical	Essentials of standardization quantification
	Preparation Work	Handling live amphibians
4	Theoretical	Methods using for monitoring amphibians
	Preparation Work	Monitoring amphibians in the nature
5	Theoretical	Methods using for monitoring amphibians
	Preparation Work	Monitoring amphibians in the nature
6	Theoretical	Standard techniques for inventory and monitoring
	Preparation Work	Collecting tissue for biochemical analysis
7	Theoretical	Standard techniques for inventory and monitoring
	Preparation Work	Collecting tissue for biochemical analysis
8	Intermediate Exam	Mid Exam
9	Theoretical	Marking techniques
	Preparation Work	Collecting amphibian samples from the nature
10	Theoretical	Determining population size
	Preparation Work	Collecting amphibian samples from the nature
11	Theoretical	Necessary keys for successful project
	Preparation Work	Preparing amphibians as scientific specimens
12	Theoretical	Analysis of amphibian biodiversity data
	Preparation Work	Morphological investigation and measurement
13	Theoretical	Supplemental approaches to studying amphibian biodiversity
	Preparation Work	Morphological investigation and measurement
14	Final Exam	Final Exam



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	9	9	9	162
Assignment	2	2	2	8
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				178
[Total Workload (Hours) / 25*] = ECTS				7
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	
2	
3	
4	
5	

Programme Outcomes (Biology Doctorate)

1	To have enough scientific background knowledge towards a specific study and research area
2	To have an ability to identify, evaluate and develop a solution for a problem on biological aspects
3	To be able to evaluate scientific observations and results of experiments using statistical analysis methods
4	To have basic skills in areas related to field of biological studies
5	To have the ability to develop cooperation with different disciplines with the high level of social communication required for studies
6	To have knowledge of technology and use of methods and means used in biological researches
7	To have an ethical understanding which will be a guide for their investigations and publications
8	For PhD; to have European Language Portfolio C1 general level language skill
9	To be able to present and discuss own research results in accordance with scientific discipline using technological tools in scientific research environments
10	To be able to detect and evaluate economic and social impacts of an own original research results
11	To be equipped with ability of carrying out independent study in biological field
12	To be able to publish at least one an international/national peer reviewed scientific paper and/or produce or interpret an original work related to biology in order to expand the frontiers of knowledge
13	To be able to develop new approaches or adaptations to be used in solving scientific and biological problems
14	To be able to develop new understanding and approaches in order to explain a new phenomenon or a biological event under investigation
15	To have abilities and experience to create new search area through inspiration gained from subject searched

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	4				2
P2		4			
P3			4		
P6				2	

