AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Marine Fishes of Turkey								
Course Code	BİO636		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	7	Workload	169 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	Main objective of the course is to introduce marine fishes of Turkish coasts. Knowledge on historical progress of marine fish taxonomy studies in Turkey, differences and similarities of fishes encountered along Black Sea, Marmara Sea, Aegean Sea and the Mediterranean, and causes of ichthyofaunal species composition will be presented.								
Course Content	Methods of fish identification; cartilaginous and bony fishes of seas surrounding Turkey; analysis of ichthyofaunal changes								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Can, A., Bilecenoğlu, M. 2005. Bottom dwelling fishes of Turkey. Arkadaş Press, 224 p.
2	Bilecenoglu, M., Taşkavak, E., Mater, S., Kaya, M. 2002. Checklist of the marine fishes of Turkey. Zootaxa, 113: 1 - 194.
3	Bilecenoglu, M., Taskavak, E. 1999. General characteristics of the Turkish marine ichthyofauna. Zoology in the Middle East, 18: 41-56.

Week	Weekly Detailed Course Contents	
1	Theoretical	Historical background of marine fish inventory studies in Turkey
2	Theoretical	Zoogeographical origin and general characteristics of Turkish marine ichthyofauna
3	Theoretical	Methods of fish species identification
4	Theoretical	Cartilaginous fishes of the Black Sea
5	Theoretical	Bony fishes of the Black Sea
6	Theoretical	Cartilaginous fishes of the Marmara Sea
7	Theoretical	Bony fishes of the Marmara Sea
8	Theoretical	Cartilaginous fishes of the Aegean Sea
9	Theoretical	Bony fishes of the Aegean Sea
10	Theoretical	Cartilaginous fishes of the Mediterranean Sea
11	Theoretical	Bony fishes of the Mediterranean Sea
12	Intermediate Exam	Mid Term Exam
13	Theoretical	Comparison of Turkish marine fish fauna with other seas
14	Theoretical	Fish biodiversity changes and its causes
15	Theoretical	Endangered marine fishes of Turkey
16	Theoretical	Future and prospects of Turkish marine fish fauna
17	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	3	60
Term Project	3	15	1	48
Reading	15	2	1	45
Midterm Examination	1	7	1	8

Final Examination	1	7	1	8
			Total Workload (Hours)	169
			[Total Workload (Hours) / 25*] = **ECTS**	7
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Understanding the marine ichthyofaunal structure of Turkey
2	Distinguishing the species diversity changes according to seas surrounding Turkey
3	Achivement of knowledge on the Turkish marine fish fauna
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
P5				2	
P6					2
P7	5				
P8		5			
P9			5		