AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Aquarium								
Course Code	SUM192			Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To obtain general knowledge about the aquarium equipments, water requirements in fresh water aquarium, most popular aquarium fishes and to provide basic information required for a simple aquarium work								
Course Content	General characteristics of freshwater aquariums, aquarium equipments, water parameters and their effects on aquarium, aquarium fish species and feeding.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Project Based Study								
Name of Lecturer(s)	Assoc. Prof. Semra KÜÇÜK								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Akvaryum, Atilla Alpbaz, E.Ü. Su Ürünleri Fakültesi Yayını, İzmir, 2000
2	Su Ürünleri Yetiştiriciliği, Atilla Alpbaz, Alp Yayınları, İzmir, 2005.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction, aquarium structure and the materials
2	Theoretical	Selection of the aquarium type and placement
3	Theoretical	Filtration, aeration and heating
4	Theoretical	Filtration, aeration and heating
5	Theoretical	Water characteristics
6	Theoretical	Water characteristics
7	Intermediate Exam	Midterm exam
8	Theoretical	Feed types and feeding
9	Theoretical	Different types of aquarium fishes, characteristics and care
10	Theoretical	Different types of aquarium fishes, characteristics and care
11	Theoretical	Different types of aquarium fishes, characteristics and care
12	Theoretical	Different types of aquarium fishes, characteristics and care
13	Theoretical	Different types of aquarium fishes, characteristics and care
14	Theoretical	Different types of aquarium fishes, characteristics and care
15	Theoretical	The potential problems, preventions and simple disease treatments
16	Final Exam	final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Midterm Examination	1	2	1	3
Final Examination	1	4	1	5
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Having general information about aquarium and aquarium equipment specifications

2	Understand basic concepts about the the physical and chemical nature of the water and impact on aquatic life
3	To know the general features of fish
4	Knowing the features of important aquarium species
5	Be able to maintain the required water quality in an aquarium.

Programme Outcomes *(Agricultural Biotechnology)*	
1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

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	3	3	3	2
P2	4	3	3	4	3
P3	2	3	5	5	3
P4	2	1	2	2	1
P5	2	2	2	2	2
P6	2	2	2	2	2
P7	2	2	2	2	2
P8	2	2	2	2	2