DISEASES AND DIAGNOSIS METHODS OF AQUARIUM FISH

1	Course Title:	DISEASES AND DIAGNOSIS METHODS OF AQUARIUM FISH
2	Course Code:	VSH 6013
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	2.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Soner Altun
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	U.Ü. Veteriner Fakültesi, Havyan Hastanesi, İç Hastalıkları Anabilim Dalı, Görükle Kampüsü 16059, Görükle/ BURSA
17	Website:	http://saglikbilimleri.uludag.edu.tr/
18	Objective of the Course:	Fish, pathogen and enviroment, aquarium water and control of fish, viral diseases of aquarium fish, bacterial diseases of aquarium fish, parasitic and fungal diseases of fish, enviromental and nutritional diseases, chemotherapotik agents in aquarium fish, diagnosis, treatment and control of aquarium fish diseases.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Learning of fresh water and marine water aquarium fish
	2	Learning of feding and reproduction of aquarium fish
	3	Learning of water condition in specific aquarium fish
	4	Learninf of viral, bacteriologic, parasitic and fungal diseases of aquarium fish
	5	Learning of diagnosis, treatment and control of aquarium fish diseases
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21	Course Content:	

Course Content:	

Week	Theoretical	Practice
1	Fresh water aquarium fish	
2	Marine water aquarium fish	
3	Clinical examination of aquarium fish	
4	Columnaris disease	

5	Aeromonas and Pseudomonas infections			
6	Bacterial gill disease (Flavobacterium bronchiophilum)			
7	Fish tuberculosis (Mycobacteriosis)			
8	Viral diseases			
9	Viral diseases			
10	Fungal diseases			
11	Parasitic diseases(İhtiyobodozis)			
12	Parasitic diseases (İhtiyofitriyozis)			
13	Helmint diseases			
14	Diagnosis, treatment and control of diseases			

22	Textbooks, References and/or Other Materials:	1. Woo P.T.K., Bruno D.W.: Fish Diseases and Disorders, Vol. 3, Viral, Bacterial and Fungal Infections, , CABI Publishing, UK, 1999 2. Buller, N.B : .Bacteria from Fish and Other Aquatic Animals , CABI Publishing, UK, 2004 3. Arda M., Seçer S., Sarıeyyüboğlu M.: Balık Hastalıkları, Medisan Yayın. No: 61; Ankara, 2005 4. Pike A.W., Lewis J.W. : Parasitic Diseases of Fish, , Samara Publishing Ltd., 1994 5. Roberts R.J. : Fish Pathology, W.B. Saunders Harcourt Publishers Ltd., London, 2001 6. Erer , H. : Balık Hastalıkları , Selçuk Üniversitesi Basım Evi, Konya, 2002

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	18.00	18.00
Total Work Load			60.00
Total work load/ 30 hr			2.00
ECTS Credit of the Course			2.00

TERM LEARNING ACTIVITIES	NUMBE	WEIGHT
Midterm Exam	0	0.00
Home work-project	1	10.00
Total	2	100.00
Success Grade		
Contribution of Final Exam to Success Grade		
Total		100.00
Course		

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	2	3	4	3	5	5	5	5	5	4	5	5	0	0	0	0
ÖK2	2	5	5	4	5	4	5	3	3	1	3	2	0	0	0	0
ÖK3	3	5	5	5	5	3	3	2	2	1	3	2	0	0	0	0
ÖK4	5	4	5	5	5	3	3	1	2	1	3	2	0	0	0	0

ÖK5	5	4	5	5	5	2	5	1	1	1	3	2	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contrib ution Level:	1 very low	2 low	3 Medium	4 High	5 Very High