	FI	SH PH	IYSIOLOGY						
1	Course Title:	FISH PH	IYSIOLOGY						
2	Course Code:	BIO6509							
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	rcle						
5	Year of Study:	1							
6	Semester:	1 6.00							
7	ECTS Credits Allocated:								
8	Theoretical (hour/week):	3.00							
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.	Hikmet Sami Yıldırımhan						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Prof. Dr. Hikmet Sami YILDIRIMHAN yhikmet@uludag.edu.tr 0224 2941790 Uludağ Üniversitesi, Fen–Edebiyat Fakültesi, Biyoloji Bölümü, 16059, Nilüfer-Bursa							
17	Website:								
18	Objective of the Course:	Blood circulation of fishes, blood veins, blood in fishes: blood cell, white blood cell, lymph and lymph stream system, digestive system of fishes, the feeding and digestion of fishes, immunity of fishes, poison glands, electric organ, endocrin system of fishes.							
19	Contribution of the Course to Professional Development:	Blood circulation of fishes, blood veins, blood in fishes: blood cell, white blood cell, lymph and lymph stream system, digestive system of fishes, the feeding and digestion of fishes, immunity of fishes, poison glands, electric organ, endocrin system of fishes.							
	Learning Outeemaa								
20	Learning Outcomes:								
20	Learning Outcomes:	1	Knows the feeding physiology of fishes and distinguishes differences in the digestive system organs.						
20	Learning Outcomes:	1 2							
	Learning Outcomes:		differences in the digestive system organs. Knows the layout of the pharynx, oral cavity and teeth of						
20		2	differences in the digestive system organs. Knows the layout of the pharynx, oral cavity and teeth of fishes. Knows the blood, blood cells and vessels in fishes. Understands the lymph and lymphatic circulatory system in						
		2	differences in the digestive system organs.Knows the layout of the pharynx, oral cavity and teeth of fishes.Knows the blood, blood cells and vessels in fishes.Understands the lymph and lymphatic circulatory system in fishes.Explains the respiratory system of fishes and the structure						
	Learning Outcomes:	2 3 4	 differences in the digestive system organs. Knows the layout of the pharynx, oral cavity and teeth of fishes. Knows the blood, blood cells and vessels in fishes. Understands the lymph and lymphatic circulatory system in fishes. Explains the respiratory system of fishes and the structure of the gills. 						
	Learning Outcomes:	2 3 4 5	 differences in the digestive system organs. Knows the layout of the pharynx, oral cavity and teeth of fishes. Knows the blood, blood cells and vessels in fishes. Understands the lymph and lymphatic circulatory system in fishes. Explains the respiratory system of fishes and the structure of the gills. Learn the physiology of reproduction and growth in fish. Explains the physiology of the excretory system and 						
	Learning Outcomes:	2 3 4 5 6	 differences in the digestive system organs. Knows the layout of the pharynx, oral cavity and teeth of fishes. Knows the blood, blood cells and vessels in fishes. Understands the lymph and lymphatic circulatory system in fishes. Explains the respiratory system of fishes and the structure of the gills. Learn the physiology of reproduction and growth in fish. Explains the physiology of the excretory system and differences in kidney structure. 						
	Learning Outcomes:	2 3 4 5 6 7	 differences in the digestive system organs. Knows the layout of the pharynx, oral cavity and teeth of fishes. Knows the blood, blood cells and vessels in fishes. Understands the lymph and lymphatic circulatory system in fishes. Explains the respiratory system of fishes and the structure of the gills. Learn the physiology of reproduction and growth in fish. Explains the physiology of the excretory system and differences in kidney structure. Explains the endocrine systems in the fishes. Explains the physiology of the nervous system and 						

1 E ir 2 E c	Theoretical Explaining the digestive system and f	Co	ur	se Content:						
1 E ir 2 E c				se coment.						
ir 2 E c	Explaining the digestive system and f		Ρ	ractice						
с	n the fishes.	eeding								
3 E	Explaining the layout of the pharynx, cavity and teeth of fishes.	oral								
	Explaining the hearth, blood cells and n fishes.	l vessels								
	Explaining the lymph and lymphatic circulatory system in fishes.									
a re	Explaining the mechanisms of the res and nervous control of respiration in f espiratory system, and the structure gills.	ish								
d	Physiology of reproduction and growt development and reproductive system according to fish species.									
ir	Explaining the physiology of excretory n fishes: kidney and urinary system, structure of kidney and urinary ducts.	the								
8 E	Explaining the ion system in fishes.									
9 E	Explaining the endocrine system in fis	shes.								
	Explaining the physiology of moveme	nt in								
Activites				Number	Duration (hour)	our) Total Work Load (hour)				
Theoreti	isfles.	5 111	Γ	14	3.00	42.00				
Practical	ls/Labs			0	0.00	0.00				
Self_stud	Isries, iy and preperation			14	6.00	84.00				
Homewo	orks			3	4.00	12.00				
Projects	-งุณาแกษ เก่อ กอาจออนอ องอเอกา กา กอ	163.		2	5.00	10.00				
Field Stu				0	0.00	0.00				
Midterm	vlaterials: exams		N C	echanism and Adaptat	0.00 W. H. Freema	H. Freeman and				
Others				0	0.00	0.00				
Final Eka	ams		Р 3	upilsners. New York. Hill W. R., Wyse A. G	32.00 Animal Physioloc	32.00 V. Harper &				
Total Wo	ork Load					180.00				
Total wor	rk load/ 30 hr		4. U	niversity Pres Fourth E	dition.	6.00				
	redit of the Course					6.00				
TERM LE		NUMBE R	W	EIGHT						
Midterm		0	0.00							
Quiz		0	0.00							
Home wo	ork-project	0	0.00							
Final Exa	am	1	100.00							
Total		1	100.00							
Contribut Success	tion of Term (Year) Learning Activitie Grade	es to	0.00							
Contribut	tion of Final Exam to Success Grade		100.00							
Total			100.00							

Measurement and Evaluation Techniques Used in the	the writing examination
Course	-

24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	1	0	4	0	5	0	0	0	0	0	0	0	0	0	0
ÖK2	5	1	0	0	0	0	0	5	0	0	5	4	0	0	0	0
ÖK3	0	1	0	3	4	0	0	0	0	4	0	0	0	0	0	0
ÖK4	0	1	0	0	0	0	0	2	0	0	0	4	0	0	0	0
ÖK5	4	1	0	5	0	5	0	3	0	5	4	0	0	0	0	0
ÖK6	0	1	0	0	0	4	0	4	0	4	0	0	0	0	0	0
ÖK7	3	1	0	4	0	0	0	0	0	0	5	5	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<u> </u>	 	LO: L	_earr	l ning () Dbjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	 \$	<u> </u>	
Contrib ution Level:	1 \	ery	low		2 low		3	Medi	um		4 Hig	h		5 Ver	y High	