Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

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Field of st	udy	Aqu	aculture and Fish	eries				
Mode of study		stationary Level first cycle				$\lambda A / \lambda I = \frac{1}{2}$	- -	
Graduate's qualification		inży	nier	WNO	21K			
Fields of science		agrie	cultural sciences					
Disciplines of science		anin	nal science and fi	isheries (100%)				
Educational profile		gene	eral academic					
Module								
Course un	nit	Con	servation of aq	uatic animals a	nd aquatourism			
Code		WNC	DZIR/AQF/S1/					
Field of sp	ecialisation							
Administe	ring faculty	Dep of R	artment of Hydro eproduction	biology, Ichthyol	ogy and Biotechnology		1	
ECTS		5.0 <i>ECTS (forms)</i> 5.0			-			
Form of course credit		examination		Language	polish	-		
Electives		Elec		Elective group		-		
Form of in	struction	Cod	Semester	Hours	ECTS	Weight	Credit	
laboratory	/ course	L	7	30	2.0	0.50	credits	
lecture		W	7	30	3.0	0.50	examination	
Leading teacher		Wied	aszek Beata (Be	ata.Wiecaszek@z	 zut.edu.pl)			
Other teachers		Step						
Proroquisi	ites			,,,,,,,,,,,,,				
W-1	Resic knowledge on potential threats in aguatic environment							
W-2	Basic knowledge or	sic knowledge on potentially threathened aquatic species						
Module/co	urse unit obiective	25						
C-1	To familiarize students with problems of threatened aquatic species, as well as with law rules and international conventions concerned the aquatic environment protection and conservation							
C-2	Demonstration of th	ne div	ing equipment and	l gaining the skills o	of underwater monitoring			
Course co	ntent divided into	vario	us forms of instr	uction			Number of hours	
T-L-1	Diver. Elements of human physiology. Buoyancy control. Diving accidents. First aid. Safety rules. 2							
T-L-2	Diving equipment. I	ng equipment. Masks, fins, snorkels. Regulators, jackets, suits (dry, winter, summer). Instruments						
T-L-3	Water einvironment. Diving technics. Snorkelling, diving, using of decompression tables.						6	
T_I_4	Organization of diving in open water areas. Selected dive sites in the Word. 0 Diving in fisheries. The underwater monitoring. 5							
T-L-4	Review of fish species threatened in Poland and Asia in relation to their conservation status.						5	
T-L-6	Presentation of endangered mammalian species; evaluation their role in aquatic eco-systems						5	
T-L-7	Review of threatened habitats - as places for reproduction and lifespan for Amphibia and Reptilia 5							
	DIVER. Elements of	hum	an physiology. Buo	yancy control. Divir	ng accidents. First aid. Sa	fety rules.		
T-W-1	DIVING EQUIPMENT (regulator, compute WATER ENVIRONME	er). Instruments ables.	2					
	Organization of divi							
T-W-2	DIVING EQUIPMENT	er). Instruments	2					
T-W-3	(regulator, computer, watch, compass). WATER ENVIRONMENT. DIVING TECHNICS. Snorkelling, diving, using of decompression tables.							
T-W-4	Organization of diving in open water areas. Selected dive sites in the Word.						8	
T W 5	Laws in Poland refe	aws in Poland referring to the conservation of aquatic animals in Poland. Role of the Polish Angling						
C-VV-1	Association in fish o	ssociation in fish conservation in Poland.						
T-W-6	in Endangered Spec animals in the world	i Endangered Species of Wild Fauna and Flora (Washington Convention) in protection of aquatic 4 nimals in the world						
T-W-7	Significance of Con Convention on the (ventio Conse itate i	on on the Conserva ervation of Migrator n Europe	tion of European W y Species of Wild A	ildlife and Natural Habita nimals (also ASCOBANS)	ts and in conservation	4	
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Course content divided into various forms of instruction Number of hours							f hours				
T-W-8	Program Nature 2000 in Europe, and Marine and Aquaculture Stewardship Council in the fisheries and aquaculture in the world						3				
Student we	Student workload - forms of activity					Nur	Number of hours				
A-L-1	Attend	Attendance in classes							30		
A-L-2	Studyir	Studying of literature							10		
A-L-3	Consul	Consulting with tutors							10		
A-L-4	Prepari	 Preparing the presentations							10		
A-W-1	Particip	Participation in lectures							30		
A-W-2	Study of literature							30			
A-W-3	Consultation with tutor							20			
A-W-4	Preparing for exam							10			
Teaching methods / tools											
M-1	Lecture										
M-2	Presentation										
M-3	Practical classes with diving										
M-4	Work with data bases										
Evaluation	methc	ods (F -	progressive, P - final)								
S-1	F	Test									
5-2	F	passing the written part									
S-3	F	practica	al assessment								
Designed learning outcomes				Reference to the learning outcomes designed for the fields of study	Reference to Learning Outcomes for qualifications at PQF 6, 7 or 8	Reference to learning outcomes for qualifications at level 6 or 7 that enable acquiring engineering competences	Course objectives	Course content		Teaching methods	Evaluation methods
Knowledge											
AQF_1A_C28_W01 DIVING TECHNICS AND DIVING IN FISHERIES. Snorkelling and diving. Organization of diving in open water areas. Selected dive sites in the World. Divers in the aquaculture. The underwater monitoring.			AQF_1A_W09	P6S_WG		C-2	T-W-2 T-W-3	T-W-4	M-2 M-3	S-3	
AQF_1A_C28_W02 Student knows the international legal rules and conventions in the field of aquatic animals conservation				AQF_1A_W02	P6S_WG	P6S_WG	C-1	T-L-5 T-L-6	T-L-7	M-1 M-4	S-1 S-2
Skills								-			
AQF_1A_C28_U01 Student can organize aquatic activity (e.g. plan of diving).				AQF_1A_U22	P6S_UO P6S_UW		C-2	T-W-2 T-W-3	T-W-4	M-2 M-3	S-2 S-3
AQF_1A_C28_U02 Student is able to link threatened aquatic animals and convensions protecting them				AQF_1A_U02	P6S_UK P6S_UW		C-1	T-W-6 T-W-7	T-W-8	M-1 M-4	S-1 S-2
Social com	petend	ces								4	
AQF_1A_C28_K01 Student has the ability to sustainable underwater activity.				AQF_1A_K03	P6S_KO P6S_KR		C-1 C-2	T-W-1 T-W-5	T-W-6	M-1 M-3 M-4	S-1 S-3
AQF_1A_C28_K02 Student can indicate forms of conservation for particular species of theatened aquatic animals			AQF_1A_K03	P6S_KO P6S_KR		C-1	T-L-6 T-L-7	T-W-5 T-W-6	M-1 M-2	S-1 S-2	
Outcomes Grade Evaluation criterion											
Knowledge											
AQF 1A C28	C28_W01 2.0										
	3,0 Student has a basic knowledge on organization of diving in open water areas. Can select dive sites in the Wor a basic knowledge on the underwater monitoring.					orld. Stud	lent has				
		3,5									
		4,0									
		4,5 50									
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Knowledge		
AQF_1A_C28_W02	2,0	
	3,0	Student knows the most important international legal rules and conventions in the field of aquatic animals conservation
	3,5	
	4,0	
	4,5	
	5,0	
Skills		
AQF_1A_C28_U01	2,0	
	3,0	Student can present a simple plan of diving
	3,5	
	4,0	
	4,5	
	5,0	
AQF_1A_C28_U02	2,0	
	3,0	Student knows at least 50% of demonstrated aquatic animals species and knows the most important conventions
	3,5	
	4,0	
	4,5	
	5,0	
Other social com	petenc	es
AQF_1A_C28_K01	2,0	
	3,0	Student can demonstrate a basic underwater activity
	3,5	
	4,0	
	4,5	
	5,0	
AQF_1A_C28_K02	2,0	
	3,0	Student can idicate the basic forms of aquatic animals conservation
	3,5	
	4,0	
	4,5	
	5,0	
Required reading	9	
1. https://www.cma	as.org/, (CMAS World Underwater Federation, 2020
2. www.padi.com,	PADI onl	ine learning, 2020
3. https://www.iucr	nredlist.o	org/, The IUCN Red List of Threatened Species, 2021