



WNoŻiR



<i>Field of study</i>		Aquaculture and Fisheries				
<i>Mode of study</i>		stationary	<i>Level</i>	first cycle		
<i>Graduate's qualification</i>		inżynier				
<i>Fields of science</i>		agricultural sciences				
<i>Disciplines of science</i>		animal science and fisheries (100%)				
<i>Educational profile</i>		general academic				
<i>Module</i>						
<i>Course unit</i>		Fish conservation in Poland and in the world				
<i>Code</i>		WNOZIR/AQF/S1/				
<i>Field of specialisation</i>						
<i>Administering faculty</i>		Department of Hydrobiology, Ichthyology and Biotechnology of Reproduction				
<i>ECTS</i>		6.0	<i>ECTS (forms)</i>	6.0		
<i>Form of course credit</i>		examination	<i>Language</i>	english		
<i>Electives</i>		6	<i>Elective group</i>			
<i>Form of instruction</i>	<i>Cod</i>	<i>Semester</i>	<i>Hours</i>	<i>ECTS</i>	<i>Weight</i>	<i>Credit</i>
laboratory course	L	3	30	3.0	0.50	credits
lecture	W	3	30	3.0	0.50	examination
<i>Leading teacher</i>		Więcaszek Beata (Beata.Wiecaszek@zut.edu.pl)				
<i>Other teachers</i>						
<i>Prerequisites</i>						
<i>W-1</i>	Basics of zoology and hydrobiology					
<i>Module/course unit objectives</i>						
<i>C-1</i>	To familiarize students with problems of threatened aquatic species, especially with fish					
<i>C-2</i>	To present law rules and international conventions concerned the aquatic environment protection and conservation					
<i>Course content divided into various forms of instruction</i>						<i>Number of hours</i>
<i>T-L-1</i>	Presentation of fish species protected in Poland - taxonomical status, habitat, threats. Status in the IUCN and Polish Red Book. Regional Inspectorate of Fisheries in Szczecin - tasks and activity in field.					8
<i>T-L-2</i>	Cartilaginous fish species in the world - threats a forms of conservation.					6
<i>T-L-3</i>	Practical work in the FishBase and NOBANIS data base					6
<i>T-L-4</i>	The most important anadromous fish species - threats and active conservation; restitution programs realized in Poland and in Europe					6
<i>T-L-5</i>	The most endangered fish species in Baltic Sea - Gadus morhua; multi-species management plans and forms of conservation					4
<i>T-W-1</i>	Legal tools concerned the fish species protection and conservation in Poland. Conservation status of fish species in Poland, validated through IUCN procedures. Presentation of legal length, close and open seasons of protected fish species in freshwaters, estuaries and in the Baltic Sea.					16
<i>T-W-2</i>	Ecological nets of protected water basins in Poland - Nature 2000. The importance of Polish Angling Association in protection and education about fish in Polish waters. Fish restitution programs and projects.					6
<i>T-W-3</i>	The international covenventions on conservation of fish and other aquatic animals in Poland and in the world.					8
<i>Student workload - forms of activity</i>						<i>Number of hours</i>
<i>A-L-1</i>	Preparation for classes					30
<i>A-L-2</i>	Literature study					30
<i>A-L-3</i>	Consultation with the lecturer					30
<i>A-W-1</i>	Classes attendance					30
<i>A-W-2</i>	Literature study					30
<i>A-W-3</i>	Consultations with the tutor					30
<i>Teaching methods / tools</i>						
<i>M-1</i>	Lecture					
<i>M-2</i>	Practical work with data bases					
<i>M-3</i>	Multimedial presentation					



Evaluation methods (F - progressive, P - final)

S-1	F	Partial test
S-2	F	Final test
S-3	F	Passing written test
S-4	F	test oral exam presentation

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
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Knowledge

AQF_1A_C10b_W01 Student knows the principal law regulations and protected fish species in Poland	AQF_1A_W02	P6S_WG	P6S_WG	C-1 C-2	T-L-1 T-W-1	T-W-2 T-W-3	M-1 M-2	S-1 S-3
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Skills

AQF_1A_C10b_U01 Student can recognize and describe the protected fish species in Poland	AQF_1A_U08	P6S_UW	P6S_UW	C-1 C-2	T-L-1 T-L-2	T-L-3 T-L-4	M-1 M-2 M-3	S-1 S-2
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Social competences

AQF_1A_C10b_K01 Student is able to indicate fish species that need protection, as well as threats and legal regulations	AQF_1A_K03	P6S_KO P6S_KR		C-1 C-2	T-L-2 T-L-4	T-W-1 T-W-3	M-1 M-2 M-3	S-1 S-3
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Outcomes	Grade	Evaluation criterion
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Knowledge

AQF_1A_C10b_W01	2,0	
	3,0	Student knows the most important principal law regulations and at least 50% of protected fish species in Poland
	3,5	
	4,0	
	4,5	
	5,0	

Skills

AQF_1A_C10b_U01	2,0	
	3,0	Student can recognize and describe at least 50% of the protected fish species in Poland
	3,5	
	4,0	
	4,5	
	5,0	

Other social competences

AQF_1A_C10b_K01	2,0	
	3,0	Student is able to indicate at least 50% of fish species that need protection, as well as threats and legal regulations
	3,5	
	4,0	
	4,5	
	5,0	

Required reading

- <https://www.iucnredlist.org/>, The IUCN Red List of Threatened Species, 2021
- Nelson J.S., Fishes of the World, Wiley and Sons, Toronto, New York, San Francisco, 2016, 5th Edition
- Kottelat M., J. Freyhof, Handbook of European freshwater fishes, Kottelat and Co., Switzerland, 2006