Faculty of Food Sciences and Fisheries

Major: **Aquaculture and Fisheries**
Dziedziny nauki: **dziedzina nauk rolniczych**
Dyscypliny naukowe: **zootechnika i rybactwo (100%)**
Educational profile: **general academic**
Form of studies: **stationary**
Level of studies: **first cycle**
Specialisation:
Symbol: **AQF_1A_S_2021_2022_Z**

Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

Academic year: 2021/2022
Valid from: 2021-10-01
Annex 1 to the Senat Resolution No.7 of January 25, 2021

Curriculum

Basic	LOE	Specialty Group	Modules / Subject group	Modules / subject symbol		FZ	Number of hours L.Ogół	L.Lab	TOTAL	Form of studies W	A	L	LK	P	PD	A	L	P	PR	ECTS total	ECTS total workload	Contact hour ECTS	First year 1st semester Lecturing classes W	A	L	LK	P	PD	ECTS	Practical classes A	L	P	PR	ECTS	ECTS total workload
			Modules/Subjects of general education																															
				A01	Basics of scientific information	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	2 z						0.0					0.0
				A02	Basics of entrepreneurship	0	1	6	0	6	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0		6 z					0.0					0.0
				A03	Ukrainian training	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	2 z						0.0					0.0
				A04	Rights and duties of students	0	1	5	5	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	5 z						0.0					0.0
				A05	Work safety and health regulations	0	1	5	5	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	5 z						0.0					0.0
				A06a	Physical education 1	0	1	30	0	0	0	0	0	30	0	0	0	0	0		0.0	0.0							0.0	30 z				0.0
				A06b	Physical education 2	0	1	30	0	0	0	0	0	30	0	0	0	0	0		0.0	0.0							0.0					0.0
				B01	Intellectual property law	0	1	10	0	10	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0		10 z					0.0					0.0
1	1				Electives 1	1	0	75	0	0	0	75	0	0	0	0	0	0	0	4.0	4.0	0.0					75 e		4.0					4.0
2	1				Electives 2	1	0	75	0	0	0	75	0	0	0	0	0	0	0		0.0	3.0												0.0
3	1				Electives 3	0	1	45	45	0	0	0	0	0	0	0	0	0	0		0.0	5.0												0.0
					Total	2	9	285	59	16	0	150	0	0	60	0	0	0	0	12.0	0.0	8.0	14 0	16 0	0 0	75 0	0 0	0 0	4.0	30 0	0 0	0 0	0 0	0.0	8.0
			Modules/Subjects of core education																															
				B05	Economics with elements of management	0	1	30	0	30	0	0	0	0	0	0	0	0	0	2.0	2.0	0.0		30 z					2.0					2.0
				B06	Matematics with basics of statistics	1	1	60	30	30	0	0	0	0	0	0	0	4.0	0.0	4.0	30 e	30 z							4.0					4.0
				B07	Hydrobiology	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	6.0	30 e								3.0	30 z				3.0
				B08	Chemistry	1	1	60	30	0	30	0	0	0	0	0	0	4.0	2.0	4.0														0.0
				B09	Biochemistry	1	1	60	30	0	0	0	0	0	30	0	0	4.0	2.0	2.0														0.0
				B10	Physics of aquatic environment	1	1	60	30	0	0	0	0	0	30	0	0	4.0	2.0	2.0														0.0
				C04	Fish anatomy and embriology	1	1	60	30	0	0	0	0	0	30	0	0	4.0	2.0	4.0														0.0
					Total	6	7	390	180	60	30	0	0	0	0	120	0	0	0	28.0	9.0	20.0	60 0	60 0	0 0	0 0	0 0	0 0	9.0	0 0	30 0	0 0	0 0	3.0	12.0
			Modules/Subjects of major education																															
				C01	Basics of fish taxonomy	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0	30 e								3.0	30 z				3.0
				C02	Fish biology and introduction to fish ecology	1	1	60	30	0	0	0	30	0	0	0	0	4.0	2.0	4.0	30 e				30 z				4.0					4.0
4	1				Electives 4	1	1	60	30	0	0	0	0	0	30	0	0	4.0	2.0	2.0	30 e								2.0	30 z				2.0
5	1				Electives 5	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	6.0														0.0
				C06	Fisheries management	1	1	60	30	0	0	0	30	0	0	0	0	6.0	0.0	6.0														0.0
				C07	Fisheries resources	1	1	60	30	0	0	0	30	0	0	0	0	6.0	0.0	6.0														0.0
				C08	Basics of genetics	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C09	Toxicology in aquaculture and fisheries	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
6	1				Electives 6	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
				C11	Genetics and fish selection	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	2.0														0.0
				C12	Aquaculture	1	1	60	30	0	0	0	0	0	0	30	0	6.0	3.0	4.0														0.0
				C13	Invertebrates aquaculture	1	1	60	30	0	0	0	30	0	0	0	0	5.0	2.0	4.0														0.0
				C14	Fish breeding	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	2.0														0.0
7	1				Electives 7	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
				C16	Diseases and treatment of aquatic animals	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C17	Viral diseases of aquatic organisms	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C18	Microbiology	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C19	Waste management in aquaculture	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
8	1				Electives 8	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
				C21	Nutrition and feed production	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C22	Basics of processing and preservation of aquati	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	4.0														0.0
				C23	Techniques of molecular biology	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	4.0														0.0
				C24	Diseases of aquatic invertebrates	1	2	60	30	20	0	0	0	0	10	0	0	5.0	1.0	4.0														0.0
9	1				Electives 9	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C26	Technological properties and safety of aquatic fi	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	3.0														0.0
				C27	Hydrochemistry and water protection	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	3.0														0.0
				C28	Conservation of aquatic animals and aquatic pla	1	1	60	30	0	0	0	0	0	30	0	0	5.0	2.0	3.0														0.0
12	1				Electives 12	0	1	0	0	0	0	0	0	0	0	0	0	15.0	0.0	5.0														0.0
					Total	27	29	1620	810	20	0	0	90	0	30	640	30	0	164.0	61.0	92.0	90 0	0 0	0 0	0 0	30 0	0 0	0 0	9.0	0 0	60 0	0 0	0 0	5.0	14.0
			Elective modules/subjects																															
1	1			B02a	Foreign language 1 (English)	1	0	75	0	0	0	75	0	0	0	0	0	4.0	0.0	4.0					75 e		4.0							4.0
				B02b	Foreign language 1 (German)	1	0	75	0	0	0	75	0	0	0	0	0	4.0	0.0	4.0					75 e		4.0							4.0
2	1			B03a	Foreign language 2 (English)	1	0	75	0	0	0	75	0	0	0	0	0	3.0	0.0	3.0														0.0
				B03b	Foreign language 2 (German)	1	0	75	0	0	0	75	0	0	0	0	0	3.0	0.0	3.0					75 e										0.0
3	1			B04a	Ethics in scientific research	0	1	45	45	0	0	0	0	0	0	0	0	5.0	0.0	5.0														0.0
				B04b	Philosophy	0	1	45	45	0	0	0	0	0	0	0	0	5.0	0.0	5.0														0.0
4	1			C03a	Gamefishes of the world	1	1	60	30	0	0	0	0	0	30	0	0	4.0	2.0	2.0	30 e								2.0	30 z				2.0
				C03b	Antarctic marine resources	1	1	60	30	0	0	0	0	0	30	0	0	4.0	2.0	2.0	30 e								2.0	30 z				2.0
5	1			C05a	Fishes in estuaries	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C05b	Aquatic ecotoxicology	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
6	1			C10a	Fisheries management and new fish catching te	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
				C10b	Fish conservation in Poland and in the world	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
7	1			C15a	Conservation genetics	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
				C15b	Bioprocess and membran technology	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
8	1			C20a	Aquaponics	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
				C20b	Bioinformatics	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	2.0														0.0
9	1			C25a	Processing of seafood by-products	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	4.0														0.0
				C25b	Utilisation of seafood by-products	1	1	60	30	0	0	0	0	0	30	0	0	6.0	3.0	3.0														0.0
12	1			D01a	Research project in aquaculture	0	1	0	0	0	0	0	0	0	0	0	0	15.0	0.0	5.0														0.0
				D01b	Research project in fisheries	0	1	0	0	0	0	0	0	0	0	0	0	15.0	0.0	5.0														0.0
10	1			P01	Practics (Fisheries)	0	1	4	0	0	0	0	0	0	0	0	4	3.0	3.0	3.0														0.0
11	1			P04	Practics (Aquaculture)	0	1	4	0	0	0	0	0	0	0	0	4	3.0	3.0	3.0														0.0
			Internship																															
10	1				Electives 10	0	1	4	0	0	0	0	0	0	0	0	4	3.0	3.0	3.0														0.0
11	1				Electives 11	0	1	4	0	0	0	0	0	0	0	0	4	3.0	3.0	3.0														0.0
					Total	0	2	8	0	0	0	0	0	0	0	0	8	6.0	6.0	6.0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0.0	0 0	0 0	0 0	0 0	0.0	0.0
					TOTA	35	47	2295	1049	96	30	150	90	0	90	760	30	0	210.0	76.0	126.0	164 0	76 0	0 0	75 0	30 0	0 0	22.0	30 0	90 0	0 0	0 0	8.0	30.0

Second year 3rd semester W	A	L	LK	P	PD	ECTS	Practical classes A	L	P	PR	ECTS	ECTS total workload
						0.0					0.0	
						0.0					0.0	
						0.0					0.0	