Zachodniopomorski Uniwersytet Technologiczny w Szczecinie

Faculty of Food Sciences and Fisheries

Field of study	Aquaculture and Fisheries		
Mode of study	stationary	*Level*	first cycle
Graduate's qualification	inżynier		
Fields of science	agricultural sciences		
Disciplines of science	animal science and fisheries (100%)		
Educational profile	general academic		
Module			
Course unit	**Antarctic marine resources**		
Code	WNOZIR/AQF/S1/		
Field of specialisation			
Administering faculty	Department of Aquatic Bioengineering and Aquaculture		
ECTS	4.0	*ECTS (forms)*	4.0
Form of course credit	examination	*Language*	english
Electives	4	*Elective group*	

Form of instruction	*Cod*	*Semester*	*Hours*	*ECTS*	*Weight*	*Credit*
laboratory course	L	1	30	2.0	0.50	credits
lecture	W	1	30	2.0	0.50	examination

Leading teacher	Stepanowska Katarzyna (Katarzyna.Stepanowska@zut.edu.pl)
Other teachers	

Prerequisites

W-1	Hydrobiology; Oceanography; Fish Systematics; Fish Biology

Module/course unit objectives

C-1	To provide students with basic courses of Antarctic marine resources and polar research

Course content divided into various forms of instruction		*Number of hours*
T-L-1	Polar research; Polish Antarctic Station Henryk Arctowski; Antarctic Living Marine Resources (fishes, birds mammals); Antarctic Treaty AT; Scientific Committee of Antarctic Research SCAR; Antarctic Treaty Consultative Meeting/The Committee for Environmental Protection ATCM/CEP Council of Managers of National Antarctic Programmes COMNAP; Standing Committee of Antarctic Logistics and Operations SCALOP Convention for the Conservation of Antarctic Marine Living Resources CCAMLR; Convention for the Conservation of Antarctic Seals CCAS; International Association of Antarctic Tour Operators IAATO; Antarctica - exploration or protection?	30
T-W-1	Arctic versus Antarctica; Polar research; Polish Antarctic Station Henryk Arctowski; Antarctic Living Marine Resources (fishes, birds mammals); Antarctic Treaty AT; Scientific Committee of Antarctic Research SCAR; Antarctic Treaty Consultative Meeting/The Committee for Environmental Protection ATCM/CEP Council of Managers of National Antarctic Programmes COMNAP; Standing Committee of Antarctic Logistics and Operations SCALOP Convention for the Conservation of Antarctic Marine Living Resources CCAMLR; Convention for the Conservation of Antarctic Seals CCAS; International Association of Antarctic Tour Operators IAATO	30

Student workload - forms of activity		*Number of hours*
A-L-1	Participation in classes	30
A-L-2	Preparation for classes	30
A-W-1	Lectures	30
A-W-2	Study of the literature	30

Teaching methods / tools

M-1	Lecture and laboratory

Evaluation methods (F - progressive, P - final)

Evaluation methods (F - progressive, P - final)		
S-1	F	Grade
S-2	P	Grade

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_C03b_W01 Knowledge of Antarctic Living Marine Resources (fishes, birds mammals).	AQF_1A_W05	P6S_WG		C-1	T-W-1	M-1	S-1
Skills							
AQF_1A_C03b_U01 Protection of Antarctic Living Marine Resources (fishes, birds mammals).	AQF_1A_U01	P6S_UW	P6S_UW	C-1	T-W-1	M-1	S-1
Social competences							
AQF_1A_C03b_K01 The student has the ability to demonstrate a conscious and ethical attitude in polar conditions.	AQF_1A_K03	P6S_KO P6S_KR		C-1	T-W-1	M-1	S-1

Outcomes	Grade	Evaluation criterion
Knowledge		
AQF_1A_C03b_W01	*2,0*	
	3,0	Basic knowledge about Antarctic region.
	3,5	
	4,0	
	4,5	
	5,0	
Skills		
AQF_1A_C03b_U01	*2,0*	
	3,0	Basic knowledge about indicate Antarctic marine resources.
	3,5	
	4,0	
	4,5	
	5,0	
Other social competences		
AQF_1A_C03b_K01	*2,0*	
	3,0	The student has the ability to demonstrate a conscious and ethical attitude in polar conditions.
	3,5	
	4,0	
	4,5	
	5,0	

Required reading

1. di Prisco G., Pisano E., Clarke A.,, Fishes of Antarctica. A biological overview., Springer-Verlag, Italia, Milano, 1998

2. Rakusa-Suszczewski S., The Maritime Antarctic Coastal Ecosystem of Admiralty Bay, Polish Academy of Sciences, Polish Academy of Sciences, 1993

3. Sahrhage D., Antarctic Ocean and Resources Variability, Springer-Verlag, Berlin, 1988

4. https://www.ccamlr.org/en/organisation/home-page