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	**Fisheries management and new fish catching techniques**		
Code	WNOZIR/AQF/S1/		
Field of specialisation			
Administering faculty	Department of Commodity Science, Quality Assessment, Process Engineering and Human Nutrition		
ECTS	6.0	*ECTS (forms)*	6.0
Form of course credit	examination	*Language*	english
Electives	6	*Elective group*	

Form of instruction	*Cod*	*Semester*	*Hours*	*ECTS*	*Weight*	*Credit*
laboratory course	L	3	30	3.0	0.50	credits
lecture	W	3	30	3.0	0.50	examination

Leading teacher	Czerniejewski Przemysław (Przemyslaw.Czerniejewski@zut.edu.pl)
Other teachers	

Prerequisites

W-1	Basic of technology, growth, and types of fishery.

Module/course unit objectives

C-1	Students will know about wordwilde fisheries, value chains, and ecological research. They will learn traditional methods to investigate exploited organisms, such as determination of population parameters, and field work for direct estimation of fish density.

Course content divided into various forms of instruction		*Number of hours*
T-L-1	History of Polish fisheries management . Fisheries: recreation commercial. Institutions of fisheries management: domestic and international and fisheries law . Anadromous fish management. New fish catching technics. Fish collection in lake, rivers and Baltic sea.	30
T-W-1	Principles of fisheries management and methods for assessment and analysis of fish populations and aquatic habitats. Modelling and Quantitative Methods in Fisheries. Using new technics in fisheries.	30

Student workload - forms of activity		*Number of hours*
A-L-1	Practice in lake and river	30
A-L-2	Self-study	30
A-L-3	Exercises	30
A-W-1	Lecture	30
A-W-2	Self-study	30
A-W-3	Partcicipation in classes	30

Teaching methods / tools

M-1	Lectures/Laboratory

Evaluation methods (F - progressive, P - final)

S-1	P	Lecture - exam
S-2	F	Laboratory - 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_C10a_W01 Students will learn about the role of the fisheries management authority in Poland, the importance of sustainable fishing and protecting the marine environment.	AQF_1A_W03 AQF_1A_W05 AQF_1A_W11	P6S_WG	P6S_WG	C-1	T-L-1	T-W-1	M-1	S-1 S-2
Skills								
AQF_1A_C10a_U01 The student has the ability to lead a rational fishing management	AQF_1A_U09 AQF_1A_U12 AQF_1A_U13 AQF_1A_U16 AQF_1A_U19	P6S_UO P6S_UW	P6S_UW	C-1	T-L-1	T-W-1	M-1	S-1 S-2
Social competences								
AQF_1A_C10a_K01 The student has good competences to plan the fisheries management, exploitation and stocking of fish	AQF_1A_K01 AQF_1A_K02 AQF_1A_K03 AQF_1A_K04 AQF_1A_K05	P6S_KK P6S_KO P6S_KR		C-1	T-L-1	T-W-1	M-1	S-1 S-2

Outcomes	Grade	Evaluation criterion
Knowledge		
AQF_1A_C10a_W01	*2,0*	the student has not knowledge of fishing and stocking on basic level
	3,0	the student has knowledge of fishing and stocking on basic level
	3,5	the student has knowledge of fishing and stocking on upper than basic level
	4,0	the student has knowledge of fishing and stocking on good level
	4,5	the student has knowledge of fishing and stocking on upper than good level
	5,0	the student has knowledge of fishing and stocking on very good level
Skills		
AQF_1A_C10a_U01	*2,0*	The student has not the ability to lead a rational fishing management on basic level
	3,0	The student has the ability to lead a rational fishing management on basic level
	3,5	The student has the ability to lead a rational fishing management on upper than basic level
	4,0	The student has the ability to lead a rational fishing management on good level
	4,5	The student has the ability to lead a rational fishing management on upper than good level
	5,0	The student has the ability to lead a rational fishing management on vary good level
Other social competences		
AQF_1A_C10a_K01	*2,0*	The student has not any competences to plan the fisheries economy
	3,0	The student has a good competences to plan the fisheries economy on the basic level
	3,5	The student has a good competences to plan the fisheries economy on the upper than basic level
	4,0	The student has a good competences to plan the fisheries economy on the good level
	4,5	The student has a good competences to plan the fisheries economy on the upper than good level
	5,0	The student has a good competences to plan the fisheries economy on the very good level

Required reading

1. John C. Sainsbury, Commercial Fishing Methods: An Introduction to Vessels and Gears, Wiley 3 edition, 1996

2. Ian Wellby, Ash Girder, Robin Welcomme, Fisheries Management: A Manual for Still - Water Coarse Fisheries, John Wiley & Sons, 2010

3. R. Quentin Grafton, Ray Hilborn, Dale Squires, Meere Tait, Handbook of Marine Fisheries Conservation and Management, Oxford University Press, 2010