



<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>		Fisheries management				
<i>Code</i>		WNOZIR/AQF/S1/				
<i>Field of specialisation</i>						
<i>Administering faculty</i>		Department of Commodity Science, Quality Assessment, Process Engineering and Human Nutrition				
<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>			<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>
project course	P	3	30	3.0	0.50	credits
lecture	W	3	30	3.0	0.50	examination
<i>Leading teacher</i>		Czerniejewski Przemysław (Przemyslaw.Czerniejewski@zut.edu.pl)				
<i>Other teachers</i>						
<i>Prerequisites</i>						
<i>W-1</i>	The student should have knowledge about fish biology, ecology and hydrochemistry					
<i>Module/course unit objectives</i>						
<i>C-1</i>	Teach the student to conduct a rational fisheries management, use appropriate fishing tools, estimate CPUE and stocking doses					
<i>Course content divided into various forms of instruction</i>						<i>Number of hours</i>
<i>T-P-1</i>	Morphometry and bioproductivity of lakes					5
<i>T-P-2</i>	Fisheries techniques					10
<i>T-P-3</i>	Estimation of stocking possibilities in lakes and rivers					5
<i>T-P-4</i>	Project of fisheries management in lake					10
<i>T-W-1</i>	Morphology of lakes and rivers					4
<i>T-W-2</i>	Bioproductivity of lakes					5
<i>T-W-3</i>	Hatching and stocking methods					5
<i>T-W-4</i>	Recreational and commercial fishing					5
<i>T-W-5</i>	Fishing methods					5
<i>T-W-6</i>	CPUE in lakes and rivers					4
<i>T-W-7</i>	Fisheries rules and rights in Poland and UE					2
<i>Student workload - forms of activity</i>						<i>Number of hours</i>
<i>A-P-1</i>	Exercises					30
<i>A-P-2</i>	Self-study					30
<i>A-P-3</i>	Report study					30
<i>A-W-1</i>	Lecture					30
<i>A-W-2</i>	Exercises					30
<i>A-W-3</i>	Self-study					30
<i>Teaching methods / tools</i>						
<i>M-1</i>	Lectures, workshops, projects, presentation					
<i>Evaluation methods (F - progressive, P - final)</i>						
<i>S-1</i>	F	Tests				
<i>S-2</i>	F	Tests				



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_C06_W01 The student has knowledge of the fisheries management and the exploitation of fish	AQF_1A_W11	P6S_WG		C-1	T-P-1 T-P-2 T-P-3 T-P-4 T-W-1 T-W-2	T-W-3 T-W-4 T-W-5 T-W-6 T-W-7	M-1 S-1
Skills							
AQF_1A_C06_U01 The student has the ability to independently lead a fisheries management	AQF_1A_U13	P6S_UW		C-1	T-P-1 T-P-2 T-P-3 T-P-4 T-W-1 T-W-2	T-W-3 T-W-4 T-W-5 T-W-6 T-W-7	M-1 S-1
Social competences							
AQF_1A_C06_K01 The student is competent to work as a manager or ichthyologist in a fisheries management	AQF_1A_K01 AQF_1A_K03 AQF_1A_K05 AQF_1A_K06	P6S_KK P6S_KO P6S_KR		C-1	T-P-1 T-P-2 T-P-3 T-P-4 T-W-1 T-W-2	T-W-3 T-W-4 T-W-5 T-W-6 T-W-7	M-1 S-2

Outcomes	Grade	Evaluation criterion
Knowledge		
AQF_1A_C06_W01	2,0	The student has not knowledge of the fishing industry and the exploitation of fish on basic level
	3,0	The student has knowledge of the fishing industry and the exploitation of fish on basic level
	3,5	The student has knowledge of the fishing industry and the exploitation of fish on upper than basic level
	4,0	The student has knowledge of the fishing industry and the exploitation of fish on good level
	4,5	The student has knowledge of the fishing industry and the exploitation of fish on upper than good level
	5,0	The student has knowledge of the fishing industry and the exploitation of fish on very good level
Skills		
AQF_1A_C06_U01	2,0	The student has not the ability to independently lead a fisheries management on basic level
	3,0	The student has the ability to independently lead a fisheries management on basic level
	3,5	The student has the ability to independently lead a fisheries management on upper than basic level
	4,0	The student has the ability to independently lead a fisheries management on good level
	4,5	The student has the ability to independently lead a fisheries management on upper than good level
	5,0	The student has the ability to independently lead a fisheries management on very good level
Other social competences		
AQF_1A_C06_K01	2,0	The student is not competent to work as a manager or ichthyologist in a fish farm on basic level
	3,0	The student is competent to work as a manager or ichthyologist in a fish farm on basic level
	3,5	The student is competent to work as a manager or ichthyologist in a fish farm on upper than basic level
	4,0	The student is competent to work as a manager or ichthyologist in a fish farm on good level
	4,5	The student is competent to work as a manager or ichthyologist in a fish farm on upper than good level
	5,0	The student is competent to work as a manager or ichthyologist in a fish farm on very good level

Required reading

- Hunter W., Teach the student to conduct a rational fisheries management, use appropriate fishing tools, estimate CPUE and stocking doses, Apple Academic Press, 2011
- Szczerbowski J.A., Inland Fisheries, IRS, Olsztyn, 2001
- Philpson J., Symes D., Inshore Fisheries Management, Kluwer Academic Publishers, 2010

Supplementary reading

- Pontecorvo G., Fisheries Management, Emerald Group Publishing Limited, 2009