

Subject card

Subject name and code	Marine and Inland Fisheries - lecture, PG_00201228						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Subject group related to practical vocational preparation		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		1.0		
Learning profile	practical		Assessment form		credit		
Conducting unit	Laboratory of Aquaculture -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Ligia Panasiak				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	15		1.0		9.0	25
Subject objectives	Introducing students to the environmental conditions of seas and estuaries (including basic ecology principles), fishing methods in marine and estuarine waters, marine fish production, inland fisheries, including fishing gear used in inland waters. Presenting to students the characteristics of fish production in inland and marine waters, conducting hydrological research of waters, and their potential use in fish production.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[AKWAL3_W01] has an advanced understanding of the links between achievements in selected fields of science and natural science disciplines, and their potential applications in socio-economic life		Students are familiar with and understand the connections between the achievements of selected natural science disciplines and their potential applications in analyzing and managing marine and inland fisheries.		[SW4] test/exam - oral or written		
	[AKWAL3_W03] has an advanced understanding of the conceptual categories and terminology related to the biological basis of aquatic organisms breeding, as well as concepts directly relevant to the practical applications of this knowledge		Students are familiar with and understand the conceptual categories and terminology of marine and inland fisheries.		[SW4] test/exam - oral or written		
	[AKWAL3_W06] has an advanced understanding of techniques, research methods and tools used in aquaculture		Student are acquainted with and discusses the techniques, research methods, and tools used in marine and inland fisheries.		[SW4] test/exam - oral or written		

Subject contents	1. Environmental conditions in seas and estuaries. 2. Fishing methods for marine waters and estuaries. 3. Marine fishery production. 4. Inland fishery. 5. Types of lakes in Poland in relation to fishery and methods of their management. 6. Fishery tools and equipment used for inland waters.		
Prerequisites and co-requisites	Basic understanding of fish biology and ecology		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Activity in classes - engagement in discussions	51.0%	25.0%
	Test	51.0%	75.0%
Recommended reading	Basic literature 1. FAO. 2022. The State of World Fisheries and Aquaculture 2022. Towards Blue Transformation. Rome, FAO. https://doi.org/10.4060/cc0461en, 2. Gulland J. A., The Fish Resources of the Ocean, FAO, 1971, 3. Rybactwo śródlądowe - praca zbiorowa pod red. J.A. Szczerbowskiego, 2008, Wyd. IRS, 4. Cetinić Perica; Świniarski Józef, Technologia połowu organizmów morskich, Gdansk, 1993 https://smp.am.szczecin.pl/dlibra/publication/1037/edition/667/content, 5. Filipiak J., Sadowski J., Trzebiatowski R., Gospodarka rybna na wodach otwartych, AR, Szczecin, 1999, 6. Sikorski, Z. E. (2004). <i>Ryby i bezkręgowce morskie: pozyskiwanie, właściwości i przetwarzanie</i>. Wydawnictwa Naukowo-Techniczne.		

	Supplementary literature	1. Rudnicki A, Poradnik rybaka jeziorowego, PWRiL, Warszawa, 1957, 2. Caddy J.F., Griffiths R.C., Living marine resources and their sustainable development: some environmental and institutional perspectives, FAO, Rome, 1995, 3. Leszek Myszkowski. Obraz polskiej akwakultury w 2021 roku na podstawie badań statystycznych przy zastosowaniu kwestionariusza RRW-22. XLVII Szkolenie - Konferencja Hodowców Ryb Łososiowatych 13-14 października 2022, Gdynia, 4. Niezależne sprawozdanie z obrotu ryb i skorupiaków krajowej akwakultury - ocena dobrych, zrównoważonych perspektyw rynkowych Opracowanie wykonane w ramach Umowy nr BBF.IV.320.V. 10.2018/2018/790 zawartej w dniu 29.05.2018 r. w Warszawie pomiędzy Ministerstwem Gospodarki Morskiej i Żeglugi Śródlądowej a Instytutem Rybactwa Śródlądowego im. Stanisława Sakowicza w Olsztynie Olsztyn, czerwiec 2018 r. https://www.arimr.gov.pl/fileadmin/pliki/PO-ryby/PO_RYBY_2014-2020/Pliki_do_pobrania/Niezalezne_sprawozdanie_z_obrotu/Opracowanie-Ryby-MGM-2018.pdf, 5. Mirosław Kuklik - Narzędzia i metody połowów w rybołówstwie przybrzeżnym http://plgr.pl/UserFiles/rybak_271-312.pdf.
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. Fish production conditions in inland waters and population density, 2. Reproduction, mortality, age structure, population development of fish, lifespan, and growth rate, 3. Population movement, production, species interactions, fish feeding habits, impact of fishing on fish populations, 4. Overview of aquatic organisms produced in aquaculture, 5. Inland water fisheries (basic principles and elements of management, lake, river, and reservoir fisheries, pond culture, major species caught in Poland, concept of sustainable fisheries), 6. Basics of salmonid aquaculture (history, production technology, characteristics of trout farming facilities, major salmonid species produced alongside rainbow trout), 7. Basics of carp farming (Cyprinus carpio) (history, technology, characteristics of carp farming facilities, other species produced in polyculture with carp), 8. Fish and invertebrate mariculture (history, major species produced, production methods, and scale), 9. Importance of limnology and hydrometeorology in fisheries, 10. Importance of potamology and krenology in fisheries, 11. Stocking and fish conservation, 12. Biomanipulation as a fishery tool for lake restoration, 13. List and briefly describe tools used in marine and inland fisheries for catching aquatic organisms.	
Work placement	Not applicable	

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