

Subject card

Subject name and code	Challenges of the modern word - lecture, PG_00099395						
Field of study	Marine Biotechnology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Optional subject group Humanistic-social subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		English		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		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		prof. dr hab. inż. Konrad Ocalewicz				
	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		2.0		10.0	27
Subject objectives	The aim of the course is to present the main challenges facing the modern world and to analyze the global and local consequences of the violent and unpredictable events we are experiencing today.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[MBMU2-KU03] Can use and critically analyze available scientific information; can prepare and present - orally or in writing - a paper covering detailed problems in the field of marine biotechnology on the basis of the scientific information or their own work, with the use of scientific language, including specialized terminology and conceptual apparatus; has the ability to conduct discussions		Is able to fluently use and critically analyze available information scientific issues relating to the modern world, the natural environment, natural resources and climate change; based on them and on the basis of your own work is able to prepare and present an oral presentation and/or a written study covering detailed issues in the above-mentioned field. issues, using scientific language, including specialized terminology and conceptual apparatus; has ability to conduct discussions		[SU2] presentation/project/paper/report [SU3] text preparation/written work		
	[MBMU2-KK01] Is ready to critically evaluate his knowledge and continuously improve, update and upgrade his skills in the field of marine biotechnology		Is ready to critically evaluate his knowledge and constantly improve it, updating and improving qualifications in the field of current world problems, with particular emphasis on changes in the natural environment.		[SK3] text preparation/written work		
	[MBMU2-KW01] Knows and broadly understands the value of natural marine resources		has in-depth knowledge of global and current changes events.		[SW1] oral statement/conversation/discussion [SW3] text preparation/written work		

Subject contents	A1: Development and application of "new generation" tools and methods in biotechnology. A2: Genetically modified organisms controversies, prospects and limitations. A3: Carbon footprint and food production globally and locally. A4: Pandemic in the world and its consequences. A5: Global energy crisis. A6: Climate change and its consequences. A7:Overexploitation of natural resources. A8: The development of artificial intelligence and the development of biotechnology.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	essay	51.0%	60.0%
	quiz	51.0%	40.0%
Recommended reading	Basic literature	Articles recommended by the instructor and independently selected by the student articles published in scientific and popular science press, documentaries, online resources and reports on current events.	
	Supplementary literature	Articles recommended by the instructor and independently selected by the student articles published in scientific and popular science press, documentaries, online resources and reports on current events.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Food production - how to reduce emission of CO2?		
Work placement	Not applicable		

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