

Subject card

Subject name and code	Basic techniques of isolation and cultivation of algae - lecture, PG_00075918						
Field of study	Aquaculture – Business And Technology						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
Education level	undergraduate studies	Subject group					
Mode of study	full-time studies	Mode of delivery				at the university	
Year of study	2	Language of instruction				Polish	
Semester of study	4	ECTS credits				1.0	
Learning profile	practical	Assessment form					
Conducting unit	Katedra Funkcjonowania Ekosystemów Morskich -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Filip Pniewski				
	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						
	Additional information: Lecture with multimedia presentation Conversation lecture						
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		0.0		0.0	15
Subject objectives	The aim of the course is to familiarise students with basic techniques for isolating and maintaining algal and cyanobacterial cultures.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[AKWAL3_W06] knows and discusses techniques, research methods and tools used in aquaculture		Knows and discusses techniques and tools used in the isolation of cyanobacteria and algae to pure cultures and for their maintaining (curriculum content: 1-5)			[SW4] test/exam - oral or written	
Subject contents	<ol style="list-style-type: none"> Media used for the culture of freshwater and marine photosynthetic organisms. Basic techniques for isolation and purification of micro and macroalgae. Methods of maintaining algal cultures. Documentation and description of strains kept. Growth characteristics of photosynthetic organisms in culture. 						
Prerequisites and co-requisites	none						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	exam		51.0%			100.0%	
Recommended reading	Basic literature		<ol style="list-style-type: none"> Richmond, A., 2004, Podręcznik hodowli mikroalg. Biotechnology and applied phycology. Blackwell Publishing, Oxford, UK. Anderson R.A., 2005, Algal culturing techniques. Elsevier Academic Press, Oxford, UK. 				

	Supplementary literature	<ol style="list-style-type: none"> 1. Richmond, A., 2000, Handbook of microalgal mass culture. CRC Press, Baco Raton, Florida. 2. Khanal, S.K., Surampalli, R.Y., Zhang, T.C., Lamsal, B.P., Tyagi, R.D., Kao, C.M., 2010, Bioenergy and biofuel from biowaste and biomass. ASCE, Reston, Virginia. 3. Johansen, M.N., 2012, Microalgae. Biotechnology, microbiology and energy. NOVA Science Publisher INC., New York. 4. Fogg, G.E., Thake, B., 1987, Algal Cultures and Phytoplankton Ecology. The University of Wisconsin Press, Madison, Wisconsin
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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