University of Gdańsk

Subject card

Subject name and code	Ecotoxicology in Aquaculture - lecture, PG_00201304		
Field of study	Aquaculture – Business And Technology		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	3	ECTS credits	2.0
Learning profile	practical	Assessment form	exam
Conducting unit	Laboratory of Marine Biotechnology -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Agata Błaszczyk	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	30.0	0.0	0.0	0.0	0.0	30

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	30	2.0	18.0	50

Subject objectives

To introduce students to the effects of anthropogenic pollution and natural substances on organisms cultured in aquaculture (from the cell to ecosystem). To understand methods of environmental risk assessment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	W_1 [K_W03] student knows and understands the conceptual categories and terminology concerning the effects of anthropogenic pollution and natural substances on organisms in aquaculture. He/she knows and understands concepts directly relevant to the practical applications of this knowledge [A1-A4].	[SW4] test/exam - oral or written
[AKWAL3-K03] is ready to follow the ethical principles in biological research and adhere to the principles of intellectual honesty	K_1 [K_K03] student is ready to observe the principles of ethics in ecotoxicological research and to respect the principles of intellectual integrity [A2-A4]	[SK8] observation of student's independent or team work
[AKWAL3-U07] can come to the right conclusions on the basis of available data	U_1 [K_U07] student is capable of making correct inferences on the basis of ecotoxicological tests [A2-A3].	[SU8] observation of student's independent or team work

<table>
<tr><td>Subject contents</td><td>1. Characteristics of classes of pollution of anthropogenic origin.2. Threats to aquaculture from natural products of aquatic organisms.3. Toxicokinetics and toxicodynamics of harmful substances in aquaculture.4. Aquacultures - a source of harmful substances.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>not required</td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>exam</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>1. Walker C.H., Hopkin S.P., Sibly R.M., Peakall B., 2002. Podstawy Ekotoksykologii, PWN, Warszawa
2. Laskowski R., Migula P., 2004. Ekotoksykologia od komórki do ekosystemu, Państwowe Wyd. Rolnicze i Leśne, Warszawa
3. Klaassen J.B., Watkins III J.B., 2014. Podstawy Toksykologii, MedPharm Polska
4. Manahan S.E., 2006. Toksykologia środowiska. PWN, Warszawa
5. Cole D.W., Cole R., Gaydos S.J., Gray J., Hyland G., Jacques M.L., Powell-Dunford N., Sawhney C., Au W.W. 2009. Aquaculture: Environmental, toxicological, and health issues. Int. J. Hyg. Environ. Health 212 (2009) 369377</td></tr>
<tr><td>Supplementary literature</td><td>-</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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