

Subject card

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| 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 Błaszczuk | | | | |
| | 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-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 | |
| | [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_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 | |

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| Subject contents | 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. | | |
| Prerequisites and co-requisites | not required | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | exam | 51.0% | 100.0% |
| Recommended reading | Basic literature | 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 | |
| | Supplementary literature | - | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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