

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                          |                                         |                                     |                   |            |     |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|-------------------|------------|-----|
| Subject name and code                       | Diploma seminar, PG_00156226                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          |                                         |                                     |                   |            |     |
| Field of study                              | Aquaculture – Business And Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                          |                                         |                                     |                   |            |     |
| Date of commencement of studies             | October 2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                          | Academic year of realisation of subject |                                     | 2027/2028         |            |     |
| Education level                             | Bachelor’s studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | Subject group                           |                                     |                   |            |     |
| Mode of study                               | full-time studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | Mode of delivery                        |                                     | at the university |            |     |
| Year of study                               | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | Language of instruction                 |                                     | Polish            |            |     |
| Semester of study                           | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | ECTS credits                            |                                     | 4.0               |            |     |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          | prof. dr hab. inż. Konrad Ocalewicz     |                                     |                   |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                          |                                         |                                     |                   |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Lecture                                                  | Tutorial                                | Laboratory                          | Project           | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.0                                                      | 0.0                                     | 0.0                                 | 0.0               | 30.0       | 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                                                       |                                         | 35.0                                |                   | 50.0       | 115 |
| Subject objectives                          | Developing the ability to correctly present substantive assumptions and results of one’s literature and/or laboratory research. Education and improvement of skills in preparing methodologically and technically correct scientific multimedia presentations. Developing and improving the ability to critically evaluate the presentation of scientific content. Improving the ability to conduct a scientific discussion. The classes are intended to help in preparing a bachelor's thesis. |                                                          |                                         |                                     |                   |            |     |

| Learning outcomes               | Course outcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Subject outcome                                                                                                                                                                                                                                                                                                                                                                                                   | Method of verification                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                 | [AKWAL3-K03] is ready to follow the ethical principles in biological research and adhere to the principles of intellectual honesty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | knows and understands at an advanced level - selected facts, objects and phenomena as well as methods and theories related to them explaining the complex relationships between them, constituting basic general knowledge in the field of aquaculture.                                                                                                                                                           | [SK2] presentation/project/paper/report                                                 |
|                                 | [AKWAL3-U04] can select and use available sources of information, and understand the literature on aquaculture in a broad sense                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Is able to use the acquired knowledge - formulate and solve complex and unusual problems through<br>- proper selection of sources and information derived from them, assessment, critical analysis and synthesis of this information,<br>- selection and use of appropriate methods and tools, including advanced information and communication techniques.                                                       | [SU2] presentation/project/paper/report                                                 |
|                                 | [AKWAL3-U08] can solve standard, atypical or complex problems on the basis of acquired knowledge and data sources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | can use acquired knowledge - formulate and solve complex and unusual problems                                                                                                                                                                                                                                                                                                                                     | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report |
|                                 | [AKWAL3-U11] can speak English at the B2 level of the Common European Framework of Reference for Languages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Is able to communicate with the environment, justify his position and discuss using a foreign language.                                                                                                                                                                                                                                                                                                           | [SU1] oral statement/conversation/discussion                                            |
|                                 | [AKWAL3-U13] can independently organize their work and critically assess progress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Is able to plan and organize individual work in order to prepare a diploma thesis and present its assumptions.                                                                                                                                                                                                                                                                                                    | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report |
|                                 | [AKWAL3-U14] can independently plan and initiate their lifelong learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | can independently plan and implement their own lifelong learning                                                                                                                                                                                                                                                                                                                                                  | [SU1] oral statement/conversation/discussion                                            |
|                                 | [AKWAL3_W01] knows and understands the relationship between the achievements in the selected fields of science and disciplines of natural sciences, and the possibility of their application in socio-economic life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | knows and understands to an advanced level - facts, theories, methods related to the subject of the diploma thesis and the complex relationships between them                                                                                                                                                                                                                                                     | [SW1] oral statement/conversation/discussion<br>[SW2] presentation/project/paper/report |
|                                 | [AKWAL3_W06] knows and discusses techniques, research methods and tools used in aquaculture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Knows and understands the practical applications of knowledge from the scope of the bachelor's thesis topic in professional activities related to their field of study: Aquaculture Business and Technology.                                                                                                                                                                                                      | [SW1] oral statement/conversation/discussion                                            |
|                                 | [AKWAL3-U10] can prepare an oral presentation of scientific nature or a short description of research done during classes, using appropriate scientific terminology, in Polish or English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Is able to communicate with the environment using specialized terminology, take part in debates - present and evaluate various opinions and positions and discuss them.                                                                                                                                                                                                                                           | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report |
| Subject contents                | A. Analysis of available professional literature in the field of aquaculture. A1. Data sources in aquaculture science. A2. Methods of collecting literature and source materials. A2. Analysis and interpretation of scientific texts and statistical data. A3. Rules for proper editing of scientific texts (methods of creating large-volume texts, content layout, rules for writing and posting figures and tables in the work, captions under figures and tables, numbering of chapters, figures, tables, formulas, appendices, citation rules literature, creating a literature list, etc.). B. Presentation of results and preparation of a diploma thesis. B1. Formulating the title of the diploma thesis and the substantive, time and spatial scope of the work. B2. Preparation of a diploma thesis plan. B3. Collecting and presenting the material, results obtained and presenting conclusions. B4. Presentation of the collected material with group discussion. B5. Preparation of a draft version of the diploma thesis. |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| Prerequisites and co-requisites |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                         |
| Assessment methods and criteria | Subject passing criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                 | Percentage of the final grade                                                           |
|                                 | presentation 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                             | 50.0%                                                                                   |
|                                 | presentation 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                             | 50.0%                                                                                   |
| Recommended reading             | Basic literature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Weiner J., 1998: Techniques for writing and presenting natural science papers. A practical guide. PWN Scientific Publishing House, 152. A.1. used during classes Literature used in the preparation of the diploma thesis agreed with the supervisor/supervisor of the thesis. A.2. studied independently by the student Literature used when preparing the diploma thesis agreed with the supervisor/supervisor. |                                                                                         |

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|                                                                | Supplementary literature                                                                                  | Literature used when preparing the diploma thesis agreed with the supervisor/supervisor. |
|                                                                | eResources addresses                                                                                      |                                                                                          |
| Example issues/<br>example questions/<br>tasks being completed | Formulating scientific hypotheses and research goals. Methods of graphically presenting research results. |                                                                                          |
| Work placement                                                 | Not applicable                                                                                            |                                                                                          |

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