

**Subject card**

|  |  |  |                        |                                     |         |  |     |
|--|--|--|------------------------|-------------------------------------|---------|--|-----|
| <b>Subject name and code</b>                       | Work experiences, PG_00147193  |  |                        |                                     |         |  |     |
| <b>Field of study</b>                              | Genetics and Experimental Biology  |  |                        |                                     |         |  |     |
| <b>Date of commencement of studies</b>             | October 2024   | <b>Academic year of realisation of subject</b>           |                        |                                     |         | 2026/2027                                      |     |
| <b>Education level</b>                             | undergraduate studies  | <b>Subject group</b>                                     |                        |                                     |         | Obligatory subject group in the field of study |     |
| <b>Mode of study</b>                               | full-time studies  | <b>Mode of delivery</b>                                  |                        |                                     |         | at the university                              |     |
| <b>Year of study</b>                               | 3  | <b>Language of instruction</b>                           |                        |                                     |         | Polish   |     |
| <b>Semester of study</b>                           | 5  | <b>ECTS credits</b>                                      |                        |                                     |         | 4.0  |     |
| <b>Learning profile</b>                            | academic   | <b>Assessment form</b>                                   |                        |                                     |         |  |     |
| <b>Conducting unit</b>                             |  |  |                        |                                     |         |  |     |
| <b>Name and surname of lecturer (lecturers)</b>    | <b>Subject supervisor</b>  |  | dr hab. Marcin Górnjak |                                     |         |  |     |
|  | <b>Teachers</b>  |  |                        |                                     |         |  |     |
| <b>Lesson types</b>                                | <b>Lesson type</b>   | Lecture  | Tutorial               | Laboratory                          | Project | Seminar  | SUM |
|  | <b>Number of study hours</b>   | 0.0  | 6.0                    | 90.0                                | 0.0     | 0.0  | 96  |
|  | E-learning hours included: 0.0   |  |                        |                                     |         |  |     |
| <b>Learning activity and number of study hours</b> | <b>Learning activity</b>   | Participation in didactic classes included in study plan |                        | Participation in consultation hours |         | Self-study                                     | SUM |
|  | <b>Number of study hours</b>   | 96   |                        | 0.0                                 |         | 4.0  | 100 |
| <b>Subject objectives</b>                          | <p>1. Understanding the specifics of work in various positions,</p> <p>2. Developing specific professional skills directly related to the place of internship,</p> <p>3. Improving skills in organizing one's own work, teamwork, effective time management, diligence, and responsibility for assigned tasks,</p> <p>4. Discovering one's own potential in the job market, establishing professional contacts to be utilized when seeking employment.</p> |  |                        |                                     |         |  |     |

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| Learning outcomes  | Course outcome   | Subject outcome   | Method of verification  |
|  | [GBEL3_U04] Capable of reading scientific texts in English and Polish with comprehension, synthesizing the knowledge contained within them, preparing well-documented studies on biological issues, as well as those related to research commercialization.  | The student is able to read and comprehend scientific texts in both English and Polish, synthesize the knowledge contained within them, and prepare well-documented studies on biological issues as well as on the commercialization of research. | [SU2] presentation/project/paper/report<br>[SU7] entries and opinions in the internship diary |
|  | [GBEL3_U07] Work in a team and organize work while adhering to occupational health and safety principles and ergonomics.   | The student is able to work in a team and organize work while adhering to health and safety regulations and ergonomics principles.  | [SU7] entries and opinions in the internship diary  |
|  | [GBEL3_K01] The utilization of theoretical knowledge in laboratory and production practice.  | The student is ready to apply theoretical knowledge in laboratory and production practice.  | [SK7] entries and opinions in the internship diary  |
|  | [GBEL3_K08] Responsibility for entrusted equipment/materials and respect for the work of others.   | The student is ready to take responsibility for the entrusted equipment/materials.  | [SK7] entries and opinions in the internship diary  |
|  | [GBEL3_K06] Integrity and honesty in scientific and professional work.   | The student is ready to demonstrate honesty, integrity, and adhere to the principles of etiquette in their professional work.   | [SK7] entries and opinions in the internship diary  |
|  | [GBEL3_K05] Responsibility for the safety of one's own work and others.  | The student is ready to comply with the principles of occupational safety.  | [SK7] entries and opinions in the internship diary  |
| [GBEL3_K03] Thinking and acting in an entrepreneurial manner.  | The student is ready to adhere to the principles of workplace safety.  | [SK7] entries and opinions in the internship diary  |   |
| Subject contents   | <p><b>Laboratory analysis and medical diagnostics:</b> Physical and chemical methods for analyzing the natural environment, food, water, and living organisms. Biochemical, genetic, and immunological methods for studying organisms, their life parameters, and disease substrates, such as quantitative and qualitative chemical analysis, parameters of aqueous solutions, ionizing radiation, spectroscopic, chromatographic, electroanalytical methods, blood morphology, urine analysis, metabolic tests, hormone levels, immunological and genetic tests, interpretation of obtained results, etc. <b>Genetics, molecular biology, biotechnology, microbiology, and physiology:</b> Gene isolations, transplantations, and transformations, molecular markers, genetic engineering, genome sequencing, in vitro cultures, micromanipulation techniques, immunological techniques and tests, microorganism identification, DNA resistance and mutations, viral infections, ecotoxicology, microbial utilization in biotechnology, interpretation of obtained results, etc. <b>Ecology, environmental protection, and conservation genetics:</b> Methods for studying biodiversity, evolutionary processes, species and environmental protection, such as studies on levels of biological diversity, interactions between organisms in ecological formations, dynamics of population changes, molecular identification of organisms, introduction and invasive organisms and their impact on native ecosystems, toxins, herbal resources, active nature protection methods, population and conservation genetics methods, indicator organisms, applied bioassays, indicators of soil and environmental degradation, waste utilization methods, production of environmentally friendly fuels and energy, water and air purification, etc.</p> |   |   |
| Prerequisites and co-requisites                                |  |   |   |
| Assessment methods and criteria                                | Subject passing criteria   | Passing threshold   | Percentage of the final grade   |
|  | Multimedia presentation  | 51.0%   | 25.0%   |
|  | Evaluation of professional internships at the workplace.   | 51.0%   | 75.0%   |
| Recommended reading  | Basic literature   | Literature recommended by the internship supervisor at the workplace.   |   |
|  | Supplementary literature   | None  |   |
|  | eResources addresses   | Adresy na platformie eNauczanie:  |   |
| Example issues/<br>example questions/<br>tasks being completed | None   |   |   |
| Work placement   | Not applicable   |   |   |

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