

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                 |                                                          |                                                                                         |                                     |                                                                                                                                                    |            |     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----|
| Subject name and code                       | Seminar, PG_00157844                                                                                                                                                                                                                                                                                                            |                                                          |                                                                                         |                                     |                                                                                                                                                    |            |     |
| Field of study                              | Bioinformatics                                                                                                                                                                                                                                                                                                                  |                                                          |                                                                                         |                                     |                                                                                                                                                    |            |     |
| Date of commencement of studies             | October 2024                                                                                                                                                                                                                                                                                                                    |                                                          | Academic year of realisation of subject                                                 |                                     | 2026/2027                                                                                                                                          |            |     |
| 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                               | 3                                                                                                                                                                                                                                                                                                                               |                                                          | Language of instruction                                                                 |                                     | Polish                                                                                                                                             |            |     |
| Semester of study                           | 6                                                                                                                                                                                                                                                                                                                               |                                                          | ECTS credits                                                                            |                                     | 3.0                                                                                                                                                |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                        |                                                          | Assessment form                                                                         |                                     | credit                                                                                                                                             |            |     |
| Conducting unit                             | Laboratory of Molecular Evolution and Bioinformatics -> Department of Evolutionary Genetics and Biosystematics -> Faculty of Biology -> Rector                                                                                                                                                                                  |                                                          |                                                                                         |                                     |                                                                                                                                                    |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                              |                                                          | prof. dr hab. Marek Ziętara                                                             |                                     |                                                                                                                                                    |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                        |                                                          |                                                                                         |                                     |                                                                                                                                                    |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                     | Lecture                                                  | Tutorial                                                                                | Laboratory                          | Project                                                                                                                                            | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                           | 0.0                                                      | 30.0                                                                                    | 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                                                       |                                                                                         | 5.0                                 |                                                                                                                                                    | 40.0       | 75  |
| Subject objectives                          | The course is aimed at preparing the student for a critical analysis of the results of research, both own and those obtained from literature data (KU_05), the ability to prepare and present research results (KU07) for recipients with different levels of general knowledge and knowledge of a specialized language (KS_05) |                                                          |                                                                                         |                                     |                                                                                                                                                    |            |     |
| Learning outcomes                           | Course outcome                                                                                                                                                                                                                                                                                                                  |                                                          | Subject outcome                                                                         |                                     | Method of verification                                                                                                                             |            |     |
|                                             | [BIOINL3_K05] Graduate thinks and acts entrepreneurially and responsibly, understands the need to popularize scientific achievements and their practical applications to society                                                                                                                                                |                                                          | Is ready to put theoretical knowledge into practice in society                          |                                     | [SK8] observation of student's independent or team work                                                                                            |            |     |
|                                             | [BIOINL3_U08] Learns independently in a targeted manner                                                                                                                                                                                                                                                                         |                                                          | Can use specialist knowledge in planning his own research                               |                                     | [SU2] presentation/project/paper/report<br>[SU8] observation of student's independent or team work                                                 |            |     |
|                                             | [BIOINL3_U07] Graduate is able to prepare in a targeted manner a written study in Polish and/or English covering detailed issues in bioinformatics, using scientific and technical language, including specialized terminology and conceptual apparatus specific to bioinformatics                                              |                                                          | Knows the rules of presenting own results and those obtained from specialist literature |                                     | [SU1] oral statement/conversation/discussion<br>[SU2] presentation/project/paper/report<br>[SU8] observation of student's independent or team work |            |     |
|                                             | [BIOINL3_U05] Graduate has the ability to use scientific literature, including English-language sources on bioinformatics; has ability to use appropriate databases                                                                                                                                                             |                                                          | Has the ability to give presentation in Polish or English                               |                                     | [SU2] presentation/project/paper/report                                                                                                            |            |     |

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|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Subject contents                                               | Interpretation and critical processing of data obtained in own research and data contained in scientific publications<br>Preparation and presentation of own studies based on own data and taken from scientific literature |                                                                                                                                                                                                                                                                                              |                               |
| Prerequisites and co-requisites                                |                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                              |                               |
| Assessment methods and criteria                                | Subject passing criteria                                                                                                                                                                                                    | Passing threshold                                                                                                                                                                                                                                                                            | Percentage of the final grade |
|                                                                | Average of partial grades from the presentations                                                                                                                                                                            | 51.0%                                                                                                                                                                                                                                                                                        | 90.0%                         |
|                                                                | Class activity                                                                                                                                                                                                              | 0.0%                                                                                                                                                                                                                                                                                         | 10.0%                         |
| Recommended reading                                            | Basic literature                                                                                                                                                                                                            | A. Literature required for the final passing of the course (passing the exam):<br><br><ul style="list-style-type: none"><li>Literature specified by the teacher individually for each student participating in the classes</li><li>Literature studied independently by the student</li></ul> |                               |
|                                                                | Supplementary literature                                                                                                                                                                                                    | B. Supplementary literature<br><br><ul style="list-style-type: none"><li>Literature recommended by the teachers during classes</li></ul>                                                                                                                                                     |                               |
|                                                                | eResources addresses                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                              |                               |
| Example issues/<br>example questions/<br>tasks being completed | Not applicable                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                              |                               |
| Work placement                                                 | Not applicable                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                              |                               |

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