

Programme

| Classes | | 4 years | | I | II | III | IV | Credite form | Year of study |
|---|------|-----------------------|-------------|-----------------------|---------------|---------------|---------------|--------------|----------------|
| | | | | year of study | | | | | |
| Type | Form | Number of hour (ECTS) | | Number of hour (ECTS) | | | | | |
| Obligatory¹ | | | | | | | | | |
| Thematic lectures | w/s | 120 | (8) | 30 (2) | 30 (2) | 30 (2) | 30 (2) | Exam | I, II, III, IV |
| Statistics | | 30 | (2) | 30 (2) | | | | Exam | II |
| Philosophy | w/s | 30 | (2) | 30 (2) | | | | Exam | III |
| sum (w/s) | | 180 | (12) | 30 (2) | 60 (4) | 60 (4) | 30 (2) | | |
| Work with supervisor² | | | | | | | | | |
| Work with supervisor ² | i | - | (12) | - (3) | - (3) | - (3) | - (3) | Credit | I, II, III, IV |
| Scientific Reporting Session³ | | | | | | | | | |
| Scientific Reporting Session ³ | i | - | (4) | - (1) | - (1) | - (1) | - (1) | Credit | I, II, III, IV |
| sum (i) | | - | (16) | - (4) | - (4) | - (4) | - (4) | | |
| SUM of obligatory classes | | - | (28) | - (6) | - (8) | - (8) | - (6) | | |
| Optional⁴ | | | | | | | | | |
| Lectures/Seminars | w/s | - | - | 5 (1) | 5 (1) | 5 (1) | 5 (1) | Credit | I, II, III, IV |
| Conferences, workshops | I | - | - | - (2) | - (2) | - (2) | - (2) | Credit | I, II, III, IV |
| Presentation of science to the society | I | - | - | - (2) | - (2) | - (2) | - (2) | Credit | I, II, III, IV |
| SUM of optional classes | | - | (15) | - (2) | - (4) | - (4) | - (5) | | |
| SUMA of obligatory and optional classes | | - | (43) | - (8) | - (12) | - (12) | - (11) | | |

CLARIFICATIONS

Doctoral studies shall include the performance of scientific research and classes covered by the programme of study. The programme of study shall include obligatory and optional classes entitling to **43 ECTS credits**, including **28 ECTS credits** for obligatory classes and **15 ECTS credits** for optional classes.

1 The subject of **obligatory classes** shall be new achievements in biology and improvement of knowledge of statistics and philosophy of nature. Classes provide modern knowledge and familiarity with research methods, including in relevant statistical analysis, and they prepare students for the examinations included in the procedure for a doctoral degree. Classes in biology shall be run by specialists from different disciplines of biology, employed in the Institutes.

- Classes shall be run in the form of lectures/seminars, grouped in the four successive thematic blocks. They include:
 - Contemporary trends in research on systematics, evolution and ecology (IB PAS, ISEA PAS),
 - Scientific basis for conservation of nature (INC PAS, IPP PAS),
 - Biological diversity (IB PAS, INC PAS),
 - Contemporary methods of examination of organisms (ISAE PAS, IPP PAS)
- The annual plan of thematic blocks shall be announced on the website by the end of September of a given academic year.
- Classes shall be credited each semester by the head of the studies on the basis of attendance during lectures/seminars, passed examination, confirmed by the block coordinator (entered into the student's book) and the semester report.
- The annual number of classes shall reach, depending on the year of the studies, 2 or 4 ECTS, including 30 or 60 contact hours.

2 The student's work with the thesis supervisor/research supervisor shall include (inter alia) discussion on the course of the research conducted by the student, preparation of the doctoral dissertation, and preparation of the presentation of the results in the form of texts (summaries, scientific publications), speeches (papers) or posters. The work with the thesis supervisor shall also include the student's participation in the research (projects) conducted by the thesis supervisor/research supervisor or any other person from the Institute (upon a consent of the head of the studies). It is aimed at the preparation for the scientific work, which is a part of the professional practice.

- Classes shall be credited every semester by the head of the studies, on the basis of an entry made by the thesis supervisor/research supervisor to the student's semester report, together with a grade related to the work and progress.
- The annual number of classes shall reach 3 ECTS, after crediting both semesters.

3 Classes shall include the student's participation in the Scientific Reporting Session of the doctoral studies, during which the student shall become familiar with the research conducted by other students, acquire the ability to present and confront his/her own research results - they are an indispensable element of the development of the ability to communicate with the scientific environment (the professional practice).

- Classes shall be credited on an annual basis by the head of the studies on the basis of the attendance and speech.

- The annual number of classes shall reach 1 ECTS, including ca. 12 contact classes.

4 **Optional classes** shall include lectures/seminars (see point a) and one-to-one classes (see points b, c); they shall include practice (point b) and shaping of social competences (point c).

- The student shall collect, every year, the required number of ECTS credits by selecting classes from the “List of optional classes”.
- Obtaining for optional classes a greater number of ECTS credits than the number provided for in the annual programme shall not release the student from the obligation to credit obligatory classes.
- Extra ECTS credits may be transferred to the further years.
- The themes of blocks of optional classes may be modified;
- The list of optional classes shall be announced before the beginning of the academic year. Classes shall be credited on an annual basis by the head of the studies.
- The annual number of classes shall reach, depending on the year, from 2 to 5 ECTS.

a) The subject of lectures/seminars shall be the latest achievements in biology and related sciences, presented by specialists from Poland and abroad. They allow to expand the knowledge in the selected fields.

They are included in the block: “Institutional Seminar/Botanic Thursdays”.

- The topics discussed as part of a block shall be reported on an ongoing basis on the websites of the Institutes.
- Classes shall be credited on the basis of the attendance, confirmed by the tutor by making an entry into the student’s book.
- The student may choose a single lecture/seminar; 1 ECTS shall be awarded for 5 (contact) hours.

EXAMPLE of collecting credits: 3 lectures at “Botanical Thursdays” (3 hours) + 2 “Institutional Seminars” (2 hours) = 5 hours = 1 ECTS

b) Participation in the life of the scientific environment, in different forms of scientific meetings (sessions, conferences, workshops), organised at home and abroad, is what provides the student with the possibility of improving the knowledge and the ability to communicate.

- Classes shall be credited on the basis of the documented active participation (with the student’s speech or poster, prepared on his/her own or with a co-author).
- For each active participation the student shall be given 2 ECTS credits.

c) The presentation of science to the society shapes the student’s involvement in the promotion of science. By taking part in the preparation of a show/lecture/lesson for social groups at different age the student improves the ability to present scientific results on different levels of knowledge and interests.

- The student may choose classes covered by a few projects implemented by the Institute for the society, inter alia: “The Festival of Science”, “The Nature Workshops”, “The Nature Lessons”, “The Institute’s Open Days”, and “Other” projects, implemented by the Institutes for the purpose of the promotion of science in the society.
- Classes shall be credited on the basis of the documented active participation (running/co-running copyright classes) in one of the

afore-mentioned actions.

- For each active participation the student shall be given 2 ECTS credits.