

Education Programme of the Doctoral School of Animal and Health Sciences

§ 1.

1. The Doctoral School of Animal and Health Sciences, hereinafter referred to as the “School”, is established by the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences in Jastrzębiec.
2. The education programme at the School lasts 4 (four) years and is delivered in two disciplines: (1) animal science and fisheries, within the field of agricultural sciences, and (2) health sciences, within the field of medical and health sciences.

§ 2.

Education at the School comprises:

- a) conducting research and preparing a doctoral thesis;
- b) supplementing and expanding knowledge in the relevant scientific discipline and related disciplines within the fields of agricultural sciences, medical and health sciences, and other fields;
- c) supplementing existing skills and acquiring new skills in the relevant scientific discipline and related disciplines within the fields of agricultural sciences, medical and health sciences, and other fields, including the presentation of research findings;
- d) acquiring social competences useful in research and implementation work and necessary for functioning and cooperating with representatives of other social groups.

§ 3.

1. Education at the School is delivered in English. Where there are no English-speaking participants, classes may be conducted in Polish.
2. Education at the School comprises:
 - a. compulsory courses (175 hours, 18 ECTS credits);
 - b. elective courses (9–18 ECTS credits);
 - c. research seminars (2–4 ECTS credits);
 - d. non-specialist activities (6–20 ECTS credits);
 - e. research work under the supervision of a supervisor (12 ECTS credits).
3. Compulsory courses comprise:

No.	Course	Number of lecture hours / practical class hours	Form of assessment	ECTS credits
1.1.	General and Molecular Genetics	30	Examination	2
1.2	Physiology	30	Course credit	2
1.3	Specialist Language Course	0/30	Examination	3
1.4	Statistical Modelling in Research	15/15	Examination	2

1.5	Patents and Intellectual Property Protection	5/0	Course credit	1
1.6	Research Funding	15/0	Course credit	2
1.7	Scientific Writing Skills	15/0	Course credit	2
1.8	Ethics and Law in Science	5/0	Course credit	1
1.9	Bibliometrics in Research	5/0	Course credit	1
1.10	Well-being in Research Work	10	Course credit	2
	TOTAL	175		18

4. Elective courses comprise:

No.	Course	Number of class hours	Form of assessment	ECTS credits
2.1	Molecular Biology Techniques	15	Course credit	2
2.2	<i>In Vitro</i> Techniques	15	Course credit	2
2.3	Imaging Methods	10	Course credit	2
2.4.	Fundamentals of Modern Omics Technologies	20	Course credit	2
2.5	Bioinformatics	20	Course credit	2
2.6	The Use of Animals in Research	30	Course credit	3
2.7	Public Health with Elements of Epidemiology	15	Course credit	2
2.8	Fundamentals of Immunology	15	Course credit	2
2.9	Biological Foundations of Development	5	Course credit	1
2.10	Artificial Intelligence in Research Work	10	Course credit	2

5. As part of the research seminars, a doctoral student of the School:

- presents their research project during a progress review session for the School's doctoral students (compulsorily twice during the period of education at the School) – 2 ECTS credits;
- participates in research seminars organised at the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences – 1 ECTS credit per 5 hours;
- participates in scientific sessions, lectures, paper presentation meetings of learned societies, etc. – 1 ECTS credit per 5 hours.

6. Non-specialist activities comprise:

Activity	ECTS credits	Maximum number of ECTS credits during the period of education at the School

Managing one's own research project	2	2
Research placement abroad	2	2
Research placement in Poland	1	1
Participation in an R&D project	1	2
Active participation in a scientific conference	1	3
Authorship of a scientific publication in a journal included in the JCR list	4	8
Authorship of a publication outside the JCR list	1	2
Participation in science promotion activities	1	2

7. Research work under the supervision of a supervisor is a compulsory component of the education programme and comprises improving the skills necessary to conduct research and carrying out the tasks specified in the Individual Research Plan under the supervision of a supervisor, supervisors or an assistant supervisor (2 ECTS credits per semester).
8. During the 4 years of education at the School, a doctoral student is required to obtain at least 46 ECTS credits, including at least 9 ECTS credits awarded in total for completing elective courses and at least 10 ECTS credits awarded in total for completing non-specialist activities and research seminars.
9. Compulsory courses, elective courses and research seminars may be delivered as part of summer schools and/or winter schools.

§ 4.

Any doubts concerning the interpretation of this education programme or any matters not regulated herein shall be resolved by the Director of the Institute in consultation with the Head of the School.