

PROGRAMME OF STUDY
at the Poznań Doctoral School of Institutes of the Polish Academy of Sciences
(PDS IPAS)

§ 1

The PDS IPAS programme of study leads to educational attainments at level 8 of the Polish Qualifications Framework, for the gaining of a doctoral degree, and prepares for work in research and research and development.

§ 2

1. In studying at PDS IPAS, a doctoral student is obliged:

1.1. To carry out an individual research plan agreed with his or her supervisor;

1.2. To obtain at least **35** ECTS points by:

a) participating in obligatory classes and seminars within their own discipline; the doctoral student should obtain at least **20** ECTS points in total, or in particularly justified cases referred to in § 7 section 4 and 23 of the Rules of the Poznań Doctoral School of the Institutes of the Polish Academy of Sciences, at least **14** ECTS points in total.

b) participating in non-obligatory classes run by PDS IPAS in selected scientific disciplines offered by PDS IPAS and/or, with the supervisor's consent, outside PDS IPAS; the student should obtain at least **8** ECTS points in total.

c) participating in classes developing general competences offered by PDS IPAS and/or, with the supervisor's consent, outside PDS IPAS; the student should obtain at least **5** ECTS points in total for completing three cycles of classes on different topics.

d) dissemination of knowledge and/or public information work; the student should obtain at least **2** ECTS points in total.

2. A detailed study programme, including a list of lecture courses, workshops, tutorials, practical activities, and other classes and activities conducted at the PDS IPAS Institutes in a given academic year, together with corresponding numbers of ECTS points, is published on the PDS IPAS website at least one month before the beginning of the academic year.

3. A doctoral student documents the completion of the study programme on a Study Progress Sheet, a form for which is contained in the Appendix 1 to this programme.

4. Learning outcomes in PDS IPAS, based on PQF 8, and methods of their verification are included in Appendix 2 to this programme.

Template of the Study Progress Sheet

Pieczęć/Stamp

KARTA PRZEBIEGU KSZTAŁCENIA / COURSE CARD

Doktorant(ka)/PhD student:..... Nr legitymacji/Student Card No.

Imię i Nazwisko/Name and Surname

Promotor(rzy)/Supervisor(s):

Promotor pomocniczy/Auxiliary supervisor.....

ZAJĘCIA/COURSES

Przedmiot/Subject	Wykładowca/Lecturer	Egzamin lub zaliczenie/Exam or credits			ECTS (1)
		Ocena/Grade	Data/Date	Podpis/Signature	

Pieczęć/Stamp

KARTA PRZEBIEGU KSZTAŁCENIA / COURSE CARD

Doktorant(ka)/PhD student:..... Nr legitymacji/Student Card No.
.....

Imię i Nazwisko/Name and Surname

Promotor(rzy)/Supervisor(s):

Promotor pomocniczy/Auxiliary supervisor.....

POZOSTAŁA DZIAŁALNOŚĆ/OTHER ACTIVITIES

Miejsce/Place	Data/Date	Rodzaj/Type	Opis/Description	Podpis/Signature	ECTS ⁽¹⁾

⁽¹⁾ ECTS - European Credit Transfer and Accumulation System
Documenting the activities is required

*Appendix No. 2 to the Programme of Study
at the Poznań Doctoral School of the Institutes of the PAS*

Learning Outcomes and Qualification Verification

Learning Outcomes and Qualification Verification at Level 8 of the Polish Qualifications Framework (PQF) at PDS IPAS in the discipline: biological sciences, chemical sciences, physical sciences, forestry, medical sciences, or agriculture and horticulture.			
PQF Component Description Code - level 8	Learning Outcomes of a PDS IPAS bv Graduate	Methods of Achieving Learning Outcomes	Methods of Assessing Learning Outcomes
<i>P8S_WG</i>	1. Has advanced general knowledge in the field of science relevant to the given discipline and the scope of conducted research; 2. Knows modern research methodology used in the discipline, necessary for solving research problems; 3. Is familiar with scientific publications in the scope of their own research; 4. Knows and understands the relationships between different disciplines, enabling cooperation with specialists from various fields; 5. Knows statistical analysis methods;	(a) independent acquisition of knowledge; (b) working with a supervisor; (c) participation in seminars and lectures; (d) participation in the scientific community;	(a) assessment of work and progress by the supervisor; (b) partial exams from lectures in the core discipline; (c) partial exams from lectures in a discipline other than the core one; (d) attendance, active participation in discussions, and oral presentations at the doctoral seminar; (e) participation in institute and departmental seminars;

<i>P8S_WK</i>	1. Knows and understands civilizational threats and knows how to prevent them; 2. Knows the principles of preparing and writing scientific publications and presenting research results (oral presentations, posters); 3. Has knowledge regarding the principles of obtaining research funding from various sources; 4. Knows the basics of preparing research projects and has basic knowledge of ethical principles in research work;	(a) independent acquisition of knowledge; (b) working with a supervisor; (c) participation in doctoral and institute seminars; (d) participation in general competence classes; (e) active participation in the scientific community (conventions, conferences, workshops, seminars);	(a) assessment of work and progress by the supervisor; (b) partial exams from lectures in the core discipline; (c) partial exams from lectures in a discipline other than the core one; (d) exams from general competence classes; (e) passing doctoral seminars in each semester of education; (f) participation with a presentation at seminars or scientific conferences; (g) confirmed active participation (e.g., preparing a section of a scientific article or a section of a research grant application);
<i>P8S_UW</i>	1. Can explain phenomena and processes based on knowledge from various sources; 2. Performs selection and interpretation of collected data; 3. Has the ability to independently search for and use scientific information, create and process databases, create texts, and utilize various presentation techniques;	(a) independent work; (b) participation in general competence classes; (c) working with a supervisor; (d) active participation in the scientific community (conventions, conferences, workshops, seminars); (e) preparation of the doctoral dissertation;	(a) assessment of work and progress by the supervisor; (b) exams from general competence classes; (c) documented active participation (e.g., preparing a publication chapter, conference presentation); (d) doctoral dissertation;

<i>P8S_UK</i>	1. Can comprehensively present the results of their own work and summarize the work of others in the form of a scientific dissertation, publication, conference oral report, lecture, or poster; 2. Can disseminate research results and communicate effectively within and outside the scientific community in both native and foreign languages at the B2 level of the Common European Framework of Reference for Languages to the extent enabling participation in the international scientific and professional environment; 3. Utilizing held knowledge, can search, analyze, evaluate, select, and integrate information from various sources and formulate critical judgments based on it;	(a) independent work; (b) participation in general competence classes; (c) working with a supervisor; (d) active participation in the scientific community; (e) presentation of scientific achievements to the public; (f) writing scientific and popular science publications;	(a) assessment of work and progress by the supervisor and the mid-term evaluation committee; (b) exams from general competence classes; (c) documented active participation (e.g., preparing a section of a scientific or popular science article, conference presentation); (d) scientific publication;
<i>P8S_UU, P8_UO</i>	1. Can plan and implement scientific research within their area of interest; 2. Possesses the ability to cooperate within a research team and with other research teams; 3. Has the ability to argue, formulate original views, draw conclusions, and create problem syntheses;	(a) independent work; (b) working with a supervisor; (c) preparation of the doctoral dissertation; (d) participation in general competence classes;	(a) assessment of work and progress by the supervisor; (b) exams from general competence classes; (c) doctoral dissertation;

<i>P8S_KK</i>	1. Understands and feels the need to continuously increase professional and personal competencies through further education, especially within their own scientific discipline; 2. Demonstrates a critical approach in research work, both toward their own work and that of others; is ready to accept criticism; 3. Is aware of the level of their own research concepts, their originality, the feasibility of the research project, the level of creativity, and the significance of the contribution to the development of the studied discipline; 4. Demonstrates creativity in searching for new research areas and directing their course, and actively participates in scientific communication;	(a) independent work; (b) working with a supervisor; (c) participation in the scientific community; (d) presentation of scientific achievements to the public;	(a) assessment of work and progress by the supervisor; (b) documented active participation (e.g., participating in preparing a response to reviewers' comments for a scientific publication); (c) doctoral dissertation;
<i>P8S_KR</i>	1. Works in research teams, respecting the work and experience of collaborators; 2. Understands the need to provide information and opinions regarding scientific achievements to society in a generally understandable way, considering various perspectives; 3. Acts according to the principles of scientific work ethics, intellectual property rules, and good professional practices;	(a) independent work; (b) working with a supervisor; (c) participation in research projects and other works of the relevant PAS Institute; (d) participation in general competence classes;	(a) assessment of work and progress by the supervisor; (b) documented active participation (e.g., preparing a chapter of a scientific or popular science publication, scientific or popular science presentation); (c) exams from general competence classes;

<i>P8S_KO</i>	1. Conducts scientific research with respect for the natural environment and without violating humanitarian principles, follows personal and others' safety rules; 2. Is ready to fulfill social obligations, is aware of the responsibility for the reliability and integrity of data presented in publications;	(a) independent work; (b) working with a supervisor; (c) own research; (d) participation in research projects and other works of the relevant PAS Institute; (e) participation in general competence classes;	(a) assessment of work and progress by the supervisor; (b) exams from general competence classes;
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Explanation of abbreviations:

P8 - PQF level, ***S*** - characteristics typical for qualifications obtained in higher education

W – knowledge (*descriptive category*): ***G*** – depth and scope, ***K*** – context

U – skills (*descriptive category*): ***W*** – use of knowledge, ***K*** – communication, ***O*** – work organization, ***U*** – learning

K – social competences (*descriptive category*): ***K*** – critical assessment, ***O*** – responsibility, ***R*** – professional role