

*This Training Programme of the Doctoral School at Maj Institute of Pharmacology, Polish Academy of Sciences has been established in Polish. The translation of this Agreement into English is made with the sole aim of facilitating understanding. In case of a difference between the English and Polish version, the Polish text will prevail.*

## **Training Programme of the Doctoral School at Maj Institute of Pharmacology, Polish Academy of Sciences**

### **I. General provisions**

#### **§1**

The aim of the training at the Doctoral School at Maj Institute of Pharmacology of the Polish Academy of Sciences (IP PAS) is to prepare students to obtain doctoral degrees in medical and health-related sciences in the disciplines of medical sciences, pharmaceutical sciences.

#### **§2**

Training at the Doctoral School consists of:

- 1) independent research conducted by the doctoral student, including the implementation of an individual research plan and an individual study programme,
- 2) preparing, under the supervision of the dissertation supervisor(s),
- 3) for scientific cooperation within IF PAN and outside the Doctoral School, including at international level,
- 4) active participation in scientific life within a given scientific discipline, e.g. by presenting scientific results, delivering papers at scientific conferences, scientific publications,
- 5) acquisition of knowledge, skills and social competences for teaching within the given discipline.

### **II. Learning outcomes**

#### **§3**

Training at the Doctoral School lasts from 6 to 8 semesters and enables doctoral students to achieve learning outcomes at level eight of the Polish Qualifications Framework for the disciplines within which the doctoral dissertation is being prepared.

#### **§4**

As a result of training at the Doctoral School, a doctoral student achieves the following learning outcomes in the knowledge category (designations in accordance with the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second level of learning outcomes for qualifications at levels 6-8 of the Polish Qualifications Framework (Journal of Laws 2018, item 2218):

The doctoral student knows and understands:

- 1) EU1 (P8S\_WG) to the extent allowing them to revise existing paradigms, the global body of work covering theoretical foundations and general and selected specific issues (appropriate to the discipline or disciplines within which the dissertation is being prepared),
- 2) EU2 (P8S\_WG) the main developmental trends in the scientific disciplines in which education is being pursued,
- 3) EU3 (P8S\_WG) research methodology,
- 4) EU4 (P8S\_WG) principles of dissemination of the results of scientific activity, including through open access,
- 5) EU5 (P8S\_WK) fundamental dilemmas of modern civilisation,
- 6) EU6 (P8S\_WK) economic, legal, ethical and other relevant determinants of scientific activity,
- 7) EU7 (P8S\_WK) basic principles of knowledge transfer to the economic and social spheres and commercialisation of the results of scientific activity and the know-how related to these results.

## §5

As a result of training at the Doctoral School, a doctoral student achieves the following learning outcomes in the skills category (designations in accordance with the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second level of learning outcomes for qualifications at levels 6-8 of the Polish Qualifications Framework (Journal of Laws 2018, item 2218):

The doctoral student is able to:

- 1) EU8 (P8S\_UW) use knowledge from various fields of science to creatively identify, formulate and innovatively solve complex problems of a research nature, in particular: define the aim and subject of scientific research, formulate a research hypothesis; develop research methods, techniques and tools and creatively apply them; make conclusions on the basis of the results of scientific research; critically analyse and evaluate the results of scientific research, expert activity and other works of a creative nature and their contribution to the development of knowledge; transfer the results of scientific activity to the economic and social sphere,
- 2) EU9 (P8S\_UK) communicate on specialised topics to the extent enabling the student to actively participate in the international scientific community,
- 3) EU10 (P8S\_UK) disseminate the results of scientific activity, also in forms addressed to a wide audience,
- 4) EU11 (P8S\_UK) initiate debate and participate in scientific discourse,
- 5) EU12 (P8S\_UK) use a foreign language (English preferred) at level B2 of the Common European Framework of Reference for Languages to the extent necessary to participate in an international scientific and professional environment,
- 6) EU13 (P8S\_UO) plan and carry out individual and team research or creative projects, including in an international environment,
- 7) EU14 (P8S\_UU) independently plan and act towards their own development and inspire and organise the development of others; plan activities or groups of activities and implement them using modern methods and tools.

## **§6**

As a result of training at the Doctoral School, a doctoral student achieves the following learning outcomes in the social competences category (designations in accordance with the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second level of learning outcomes for qualifications at levels 6-8 of the Polish Qualifications Framework (Journal of Laws of 2018, item 2218):

The doctoral student is prepared to:

- 1) EU15 (P8S\_KK) critically appraise achievements within a scientific discipline, critically evaluate own contribution to the discipline, recognise the importance of knowledge in solving cognitive and practical problems,
- 2) EU16 (P8S\_KO) fulfil the social responsibilities of a researcher, to initiate action for the public interest, to think and act in an entrepreneurial manner,
- 3) EU17 (P8S\_KR) uphold and develop the ethos of the research and creative community, including conducting research in an independent manner, respecting the principle of public ownership of research results taking into account the principles of protection of intellectual property.

## **§7**

The doctoral student is required to document, through an entry in the student record book the achievement of the learning outcomes and the fulfilment of the other conditions set out in the Training Programme of the Doctoral School, in the form of a signed declaration, before submitting the dissertation.

### **III. School's educational programme**

## **§8**

1. The educational programme of the Doctoral School is announced annually.
2. Training at the Doctoral School is delivered through:
  - 1) individual education,
  - 2) participation of the doctoral student in conferences and research internships,
  - 3) preparation of scientific articles by the doctoral student.
3. Individual education involves:
  - 1) training based on an individual research plan developed jointly by the doctoral student and their supervisor(s), which defines the subject matter, scope and timing of the research work leading to the timely completion of the training and preparation of the doctoral thesis,
  - 2) training implemented under the Training Programme based on classes prepared by the Doctoral School and conducted in Polish and/or English.
4. In justified cases, with the approval of the Head of the Doctoral School, subjects taken outside the Doctoral School may be counted towards a specific module of study.

#### **IV. Individual study programme**

##### **§9**

1. A doctoral student, in the course of their training at the Doctoral School, is obliged to pass the subjects assigned to the individual modules of study, including:
  - 1) subjects included in the core module in the discipline of medical sciences and pharmaceutical sciences,
  - 2) subjects included in specialist modules in the discipline of medical sciences or pharmaceutical sciences,
  - 3) soft skills module, including, for example, workshops, conferences and training,
  - 4) doctoral seminar.
2. The core module covers general topics in the discipline of medical sciences and the discipline of pharmaceutical sciences in which training is provided at the Doctoral School. This module is compulsory for all doctoral students.
3. The specialised module covers specific topics in the discipline of medical science or the discipline of pharmaceutical science in which training is provided at the Doctoral School. The module is compulsory for doctoral students preparing a dissertation within a given discipline.
4. The soft skills module is conducted in the form of workshops and training. The module includes, in particular, training in the ability to prepare scientific papers and conference presentations, knowledge of the sources and rules of science funding, including the grant system and the rules for drawing up relevant proposals, knowledge of copyright protection regulations and open access policies. It also includes looking after interns, volunteers etc.
5. The doctoral student is required to complete the individual modules to the extent of:
  - 1) core module - at least 30 hours in accordance with the teaching offered at the Doctoral School,
  - 2) specialist module - 30 hours for the discipline of medical sciences and 30 hours for the discipline of pharmaceutical sciences - to be chosen according to the offer of the Doctoral School,
  - 3) soft skills module - 15 hours,
  - 4) doctoral seminar - 80 hours.
6. The doctoral student should pass the subjects within the modules referred to in item 1 point 1-3, until the end of the 4th semester of training at the Doctoral School. In exceptional cases, this may be postponed at the request of the supervisor addressed to the head of the Doctoral School, no longer than until the 6th semester of training at the Doctoral School.

##### **§10**

1. The following grading scale is used in the Doctoral School for the verification of learning outcomes, in particular for credits and examinations:

- 1) from 90% very good (5.0),
  - 2) from 80% good plus (4.5),
  - 3) from 70% good (4.0),
  - 4) from 60% satisfactory plus (3.5),
  - 5) from 50% satisfactory (3.0),
  - 6) below 50% fail (2.0).
2. The detailed Training Programme of the Doctoral School is prepared by the Council of the Doctoral School and is published by 30 September of the given year.

## **V. Final provisions**

### **§11**

1. The Regulations were adopted by resolution of the Scientific Council of Maj Institute of Pharmacology of the Polish Academy of Sciences No. ... of 10 December 2024 and are valid for training cycles starting from the academic year 2025/2026.
2. The Doctoral Self-Governing Body must be consulted in order to determine the Training Programme. If 14 days have elapsed to no avail, the consultation requirement shall be deemed to have been complied with.