

## **THE FRAMEWORK EDUCATION PROGRAM of the Doctoral School at Poznan University of Technology**

### **§ 1**

1. The Framework Education Program of the Doctoral School aims at obtaining learning outcomes for level 8 qualifications of the Polish Qualifications Framework (PQF) in order to be awarded a PhD title. It also prepares for research, research and development as well as didactic work.
2. As a result of education in the doctoral school the following learning outcomes are achieved:
  - **in terms of knowledge**  
a person who graduated from doctoral school knows and understands:
    - a) to the extent that enables revision of existing paradigms - global achievements, covering theoretical basis as well as general and selected specific issues, that are specific to scientific disciplines studied at the doctoral school,
    - b) key developmental trends of science disciplines in which education takes place at the doctoral school,
    - c) scientific research methodology in disciplines represented at the doctoral school,
    - d) principles of promoting scientific activity results, also in an open access mode,
    - e) fundamental dilemmas of the contemporary civilization,
    - f) economic, legal, ethical and other vital conditions related to scientific activity,
    - g) basic conditions of knowledge transfer to the economic and social sphere as well as commercialization of the results of scientific activities and know-how related to these results.
  - **in terms of skills**  
a person who graduated from doctoral school can:
    - a) use the knowledge from different branches of science to creatively identify, formulate and to innovatively solve complex problems or to execute research tasks in particular:
      - define the aim and subject of scientific research, form a research hypothesis,
      - develop research methods, techniques and tools and use them creatively,
      - draw conclusions on the basis of research results,
    - b) critically analyze and assess scientific research results, work of experts and other creative activities together with their contribution into knowledge development,
    - c) transfer the results of scientific activity to the economic and social sphere,
    - d) communicate on specialist issues on the level that allows active participation in the international scientific community,
    - e) share results of scientific activity also in a popular form,
    - f) initiate debates and take part in scientific discourse,
    - g) use the English language on at least B2 level, according to the Common European Framework of Reference for Languages (CEFR), to a degree which allows active participation in the international scientific and professional community,
    - h) plan and implement individual and team research projects, also in the international community,
    - i) independently plan and act for their self-development as well as inspire and organize development of others,
    - j) plan classes and groups of classes and conduct them with the use of up-to-date methods and tools;

- **in terms of social competencies**

a person who graduated from the doctoral school is ready to:

- a) critically evaluate the achievements within a given scientific discipline,
- b) critically evaluate their own contribution to the development of a given scientific discipline,
- c) acknowledge the importance of knowledge in solving cognitive and practical problems,
- d) meet the social obligations of researchers and creators,
- e) initiate actions in the public interests,
- f) think and act in an entrepreneurial manner,
- g) maintain and develop the ethos of research and creative communities, including:
  - conducting independent scientific activity,
  - respecting the principle of public ownership of the results of scientific activities, including the principles of intellectual property protection.

3. Learning outcomes are achieved as a result of:

- a) implementing individual study program,
- b) implementing individual scientific plan,
- c) being a part of the doctoral school academic community and taking part in different forms of activities organized by the school,
- d) participating in the life of academic community – on national and international level.

## § 2

1. As part of education in the doctoral school, a PhD student is required to pursue:

- 1.1. Individual scientific plan prepared together with the doctoral thesis supervisor,
- 1.2. Education program and obtain at least 48 ECTS points.

2. The Framework Education Program of the Doctoral School (Annex 1) and detailed list of obligatory subjects, elective monographic lectures and other classes pursued at Poznan University of Technology in the given academic year, together with corresponding number of ECTS points that constitute grounds to design (for each PhD students) individual training program, will be available on the website at least one month prior to the beginning of the academic year.

3. Implementation of the Framework Education Program of the Doctoral School is documented in the Doctoral Education Program Sheet (Annex 2).