

## General educational plan (program of study) of the PhD program at IICT - BAS

### First year (1-2 semester)

#### 1. Language Preparation Course

#### 2. Computer Skills Course – Choice of [IT Courses](#)

- [LaTeX Basics](#)
- [Data Analysis with R](#)
- [Presentation skills](#)
- [Photoshop](#)
- [GIMP](#)
- [MATLAB](#)
- [Statistical data analysis](#)
- [MS Excel](#)
- [Transfer of scientific knowledge to the public through the free electronic encyclopedia Wikipedia](#)

#### 3. Individual research project 1

- Formulation of a research topic
- Literature review and methodological preparation
- Initial results and analyses

#### 4. Specialized courses at the Central Center of BAS (at least 2 courses are selected) from Specialized courses at the Central Center of BAS

- *The courses concerning the doctoral program are listed*

#### 5. Seminar on .....

- Presentation and discussion of current research and projects
- Critical analysis of scientific articles and reports

#### 6. General basic preparation according to the synopsis for an exam in a basic specialized subject

- Preparation of a synopsis on the topic of the dissertation
- Synopsis exam: 2 written questions and 2 - 4 oral questions

### Second year (3-4 semester)

#### 7. Individual Research Plan 2

- Research and experiments
- Analysis and interpretation of results

- Preparation of a dissertation

#### **8. Ethics and professional development**

- Scientific ethics and integrity
- Publication of scientific papers
- Participation in conferences and seminars
- Career development and academic opportunities

#### **9. Seminar on ..... 2**

- Presentation and discussion of individual research projects
- Interdisciplinary discussions and collaboration

**Third year (5-6 semester) (for PhD students part-time and self-study until the end of the doctoral period)**

#### **10. Individual Research Plan 3**

- Finalizing research and experiments
- Analysis and interpretation of results
- Preparation of a dissertation

#### **11. Publications and presentations**

- Preparation of scientific articles for publication
- Presentation of the results of international conferences

#### **12. Presentation of the work done on the dissertation**

- Presentation of published results
- Further specification of the topic of the dissertation (no later than 3 months before the date of the meeting of the section for the preliminary discussion)

#### **13. Defense of the dissertation (up to 5 years after the expiration of the doctoral degree)**

- Preparation and presentation of the dissertation to a scientific jury.
- Answers to questions and criticism from committee members

**This program provides doctoral students with the necessary knowledge and skills to conduct independent research in the field of ..... and their successful application in various scientific and practical contexts.**