

Physics
**in the discipline of Physical Sciences English -
language Study Programme in Physics
at the Doctoral School of Exact and Natural Sciences**

I

General provisions

1. The study programme in Physics has been established according to the Act of 20 July 2018 on the Law on Higher Education and Science and the guidelines applicable at the Jagiellonian University in Kraków.
2. The study programme leads to learning outcomes for qualifications defined as level 8, according to the Polish Qualifications Framework.
3. The study programme lasts eight terms.
4. The programme is conducted primarily in English.
5. Detailed requirements and the admission criteria are defined by the University regulations as accepted by the University Senate.
6. A PhD student submits an Individual Research Plan to the supervisor after 12 months from the day of the commencement of the study programme.
7. A number of ECTS points (European Credit Transfer and Accumulation System) allocated to the study programme in the discipline of Physics is a minimum 40 points, with a minimum of 24 points to be obtained by the end of the fourth semester.
8. The rules on achieving learning outcomes and the manner of their evaluation are specified in the syllabuses of the individual courses.

II

Occupational internship

1. Occupational internships programmes are realized in the form of conducting classes with students as well as assisting in this process.
2. Occupational internships can also take the form of conducting activities with the purpose of popularizing science.
3. The principles and forms of internship for PhD students of physics programme are determined by the Head of PhD Programme.
4. The number of hours allocated to an occupational internship programme must not exceed 60 hours per academic year.

III

Evaluation of study and scientific programme accomplishments

1. The supervisor monitors the study programme implemented by the PhD student and his/her Individual Research Plan.
2. Annually, no later than by 30 September, the supervisor submits to the Head of PhD Programme written information on the implementation of the individual research plan and the assessment of the PhD student's progress.
3. The Head of PhD Programme assesses the implementation of the study programme and research programme on the basis of the information from supervisors and a report from the University IT system.
4. Changing an Individual Research Plan, in particular changing or postponing some of the PhD student's duties to another date, requires the approval of the Head of PhD Programme.
5. The Head of PhD Programme may decide to accept as part of the performance of duties (with the appropriate allocation of ECTS points) courses or classes not specified in the study programme.
6. By the end of the 4th semester, the PhD student shall be subject to the mid-term evaluation before a committee appointed by the director.
7. The evaluation date is established by the Head of PhD Programme.
8. 30 days before the scheduled committee meeting, the PhD student shall submit to the Head of PhD Programme a written report on the implementation of the individual research plan. The report must be approved by the supervisor before submission.
9. Mid-term evaluation committee meetings shall be attended by committee members and the PhD student in the parts to which he was invited.

IV Schedule for the study programme in Physics

Doctoral School of Exact and Natural Sciences Study Programme: Physics						
Item	Objective	Description	PQF*	Term	ECTS	No of hours
OBLIGATORY CLASSES IN DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES (MINIMUM 14 ECTS)						
Specialist PhD course		Lecture - presentation of the latest results of world research and current research problems in a given discipline (selected theories, methods, models and relationships between them) or interdisciplinary lecture. It may include exercises or problems to be solved outside the lecture or elements of group work or in the form of workshops. Assessment: exam .	P8S_WG P8S_KK	I-VIII	2-4/30h (min. 4)	30-120
PhD seminar		Seminar: preparation for research, analysis and creative synthesis of world scientific achievements, identifying and solving research problems, participating in the exchange of experiences and scientific ideas. Assessment: assessment of paper and participation .	P8S_WG P8S_UK P8S_UW P8S_UO	I-VIII	1/15h (min. 4)	60-120
PNDA course (Foundations of academic teaching)		Theoretical preparation for work of an academic teacher. Developing communication skills, knowledge transfer, and ability to assess the work of others. Assessment: credit (or another, determined by the teacher) .	P8S_UU P8S_KR	I-VI	2-4 (min 2)	15-30

English	English at C1 level; if the PhD students holds a C1 certificate, they may obtain credit from JCJ without having to attend classes, and the PhD student may choose a different language course at any level. Assessment: exam (or another set by the teacher).	P8S_UK	I-IV	4(min 4)	60
JOINT OPTIONAL ACTIVITIES FOR THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES (MINIMUM 4 ECTS POINTS)					
Doctoral School seminar	A monthly interdisciplinary seminar with English lectures by invited researchers. Assessment: credit	P8S_WG P8S_UW P8S_UK	I-VIII	max 4 ECTS (1 ECTS per year)	minimum 6 seminars per year
Foreign language	Second foreign language Assessment: exam	P8S_UU	I-IV	4	60
Polish for foreigners	Assessment: exam	P8S_UU	I-VIII	4	60
General knowledge development classes	A course selected from the list announced before a given academic year, e.g. philosophy, ethics, artificial intelligence, cosmology. Assessment: exam	P8S_UW P8S_KR P8S_WK	I-VIII	2 for 30h	30 or 60
Classes developing professional competences and "soft" skills	A course selected from the list announced before a given academic year, e.g. career planning, managerial competence, business communication. Assessment: specified in the subject syllabus	P8S_WK P8S_KR P8S_KO	I-VIII	2 for 30h	30
OPTIONAL CLASSES DEVELOPING PROFESSIONAL COMPETENCES (minimum 4 ECTS)					
Tutorial with the supervisor	Preparing an individual research project, verifying the work plan, preparation of public speeches on the project, editorial work on project publication.	P8S_KK P8S_WG P8S_UO	I-VIII	1 for 15h	15 or 30 or 45 or 60h, max 15h per year

PNDA (Foundations of academic teaching) workshop	Teaching works hops. Assessment: credit	P8S_UK	I-VI	1 for 15h	15-30
Courses for acquiring competences to conduct an individual research plan (e.g. summer schools, courses at other universities, including foreign universities)	Assessment: as per course programme	P8S_WG P8S_UW	I-VIII	As per course requirements	As per course requirements
COURSES DEVELOPING TEACHING COMPETENCES					
Teaching classes as part of professional internship	Preparation for academic teaching, developing communication skills and knowledge transfer. Assessment by the subject coordinator, taking into account the opinions of students.	P8S_UU P8S_KO	I-VIII	1 for 15h	240
<p>Additional training:</p> <ol style="list-style-type: none"> 1. The PhD students entering their study programme are required to complete training in Health and Safety in Education. 2. First Aid course completed by the end of the second term 3. The PhD students who plan research involving vertebrates are obliged to complete training to obtain appropriate licenses. 					

* Polish Qualification Framework (PQF) in accordance with the Regulation of the Minister of Science and Higher Education on the characteristics of the seconddegree learning outcomes for the qualifications at the levels 6-8 of the Polish Qualifications Framework.

V

Final provisions

The study programme Physics in the discipline of Physical Sciences at the Doctoral School of Exact and Natural Sciences enters into force on the day of the adoption of the Resolution.