

English - language
Education Programme in Astronomy
in the discipline of Astronomy
at the Doctoral School of Exact and Natural Sciences

I

General provisions

1. The education programme in Astronomy has been established according to the Act of 20 July 2018 on the Law on Higher Education and the guidelines applicable at the Jagiellonian University in Kraków.
2. The education programme leads to the achievement of level 8 learning outcomes as defined according to the Polish Qualifications Framework.
3. The education programme lasts eight semesters.
4. The detailed requirements and the admission criteria to the programme are defined within the terms and conditions for admission as approved by the Senate.
5. Within 12 months from the date of commencement of education, a doctoral student is to submit an Individual Research Plan to the co-ordinator of the education programme for approval.
6. The number of ECTS credits allocated to the education programme in Astronomy is a minimum of 40 credits.
7. The rules on achieving learning outcomes and the manner of their evaluation are specified in the syllabuses of the individual courses.

II

Professional traineeships

1. Professional traineeships shall take the form of conducting classes with students as well as assisting in this process.
2. Professional traineeships can also take the form of conducting activities with the purpose of popularizing science.
3. The number of hours allocated for professional traineeships must not exceed 60 hours per academic year.

III

Mode of study and research progress assessment

1. The supervisor shall monitor 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 education programme co-ordinator written information on the implementation of the individual research plan and the assessment of the PhD student's progress.
3. The co-ordinator of the education programme evaluates the implementation of the study and research progress of the PhD students on the basis of the information from supervisors and a report from the Electronic University System for Study Support.
4. Changing an individual research plan, in particular, changing or postponing some of the doctoral student's duties to another date, requires the approval of the co-ordinator of the education programme.
5. The co-ordinator of the education programme may decide to accept as part of the performance of duties (with the appropriate allocation of ECTS credits) courses or classes not specified in the education programme.
6. By the end of the 4th semester, the PhD student shall be subject to the mid-term assessment before a committee appointed by the director.
7. The mid-term assessment date, in accordance with the PhD student's individual research plan, is established by the programme co-ordinator.
8. 30 days before the scheduled committee meeting, the PhD student shall submit to the programme co-ordinator a written report on the implementation of the individual research plan. The report must be approved by the supervisor before submission.
9. Members of the committee and the PhD student, in the parts to which s/he was invited, participate in the meetings of the committee conducting the mid-term assessment.

IV
SCHEDULE FOR THE EDUCATION PROGRAMME IN ASTRONOMY

DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCE, EDUCATION PROGRAMME IN ASTRONOMY						
Item (name of the course)	Objective	Description	PQF*	Semester	ECTS	No of hours
OBLIGATORY ACTIVITIES AT THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES (MINIMUM 28 ECTS CREDITS)						
English Language course		English classes at C1 level for PhD students who do not hold a C1 certificate or are not graduates of master studies conducted in English. Assessment: exam	P8S_UK	I	4	60
Specialist course		Two lectures from at least three offered: Presentation of the foundations and current research problems of a given discipline. Assessment: exam	P8S_WG P8S_UW	I-IV	4/8	60/120
Doctoral seminar		Preparation for research work, analysis and creative synthesis of world scientific achievements, identifying and solving research problems, participating in the exchange of scientific experience and ideas. Assessment: assessment of the paper and activity at the seminar.	P8S_WG P8S_UW	I-VI	4/12	30/90

Workshop under the direct supervision of the supervisor	PhD student research under the direct supervision of the supervisor. Assessment: awarded by the supervisor; with a grade	P8S_UW P8S_UK P8S_UO P8S_KK P8S_KR	I-VIII	4/16	60/240
Research workshop	Individual PhD student research, completion of the doctoral dissertation Assessment: awarded by the supervisor	P8S_W P8S_U	I-VIII	No ECTS	Up to 8 hours daily
OPTIONAL ACTIVITIES JOINT FOR THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES (MINIMUM 4 ECTS CREDITS)					
Doctoral School seminar	A monthly interdisciplinary seminar with English lectures led by invited researchers Assessment: credit	P8S_WG P8S_UW P8S_UK	I-VIII	4 (1 x 4)	Minimum 6 seminars a year
Modern foreign language course	As a second foreign language Assessment: exam	P8S_UU	I-IV	4	60
Polish language course for foreigners	Assessment: exam	P8S_UU	I-VIII	4	60
General knowledge development course	Course/s selected from a range of courses offered before a given academic year, e.g. philosophy, ethics, artificial intelligence, cosmology. Assessment: exam	P8S_UW P8S_KR P8S_WK	I-VIII	2 for each 30 hours	30 or 60

Professional competence and soft skills development course	One course selected from a range of courses offered before a given academic year, e.g. career planning, managerial skills, business communication. Assessment: provided in the course syllabus	P8S_WK P8S_KR P8S_KO	I-VIII	2 for each 30 hours	30
OPTIONAL ACTIVITIES TO DEVELOP PROFESSIONAL SKILLS (MINIMUM 4 ECTS CREDITS)					
Astronomical Observatory Seminar	Participation in chosen seminars to broaden the knowledge of the recent astronomy achievements and to learn how to deliver seminars. Assessment: credit based on a PhD student's declaration that s/he participated in at least 10 seminars during the year.	P8U_U P8U_W	I-VIII	1/8	At least 5 seminars per semester
Other courses and activities leading to attaining competences to accomplish IRP	For example: summer schools, courses completed at other universities, including foreign universities. Assessment: according to a course syllabus	P8S_KK P8S_UO	I-VIII	According to the programme envisaged by the programme co-ordinator	At least 35 hours
PROFESSIONAL TRAINEESHIPS					
Professional traineeships	Preparation for work as an academic teacher: developing communication skills and knowledge transfer skills. Assessment: credit based on the opinion of the person monitoring the classes given by the PhD student	P8U_U, P8U_K	I-VIII	1 for 15 hours	Up to 60 hours a year

In-company internship	Optional; in an industrial company or other company relevant to the PhD student, for a total of 3 months. Assessment: credit based on a company certificate	P8U_U P8U_K	IV-VIII	1 ECTS point for 35 hours of internship	Up to 3 months
<p>Mandatory additional training: PhD students starting their education are required to complete occupational health and safety training. First Aid course (theoretical and practical part) to be carried out by the end of the 2nd semester. PhD students planning research involving vertebrate animals are required to undergo training that ends with obtaining the appropriate qualifications.</p>					

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

Conducting research for a doctorate and preparing a doctoral dissertation within the meaning of Art. 187 point 3 of the Act on Higher Education and Science of July 20, 2018, partially fulfils the implementation of all types of learning outcomes for qualifications at PQF level 8. Obtaining these outcomes is verified by the supervisor.

V

Final provisions

Education programme in Astronomy in the discipline of Astronomy at the Doctoral School of Exact and Natural Sciences enters into force on the day of the adoption of the Resolution.