

**Education Programme in Chemistry  
in the discipline of chemical sciences  
conducted in Polish  
at the Doctoral School of Exact  
and Natural Sciences**

**I**

**General provisions**

1. The education programme in Chemistry has been developed according to the Act of 20 July 2018 on Law on Higher Education and Science and the guidelines in force at the Jagiellonian University in Kraków.
2. The education programme leads to achieving learning outcomes for the qualifications at Level 8 of the Polish Qualification Framework (PQF).
3. The education programme in Chemistry lasts 8 semesters.
4. Polish is a medium of instruction of the programme. Courses can also be taught in English.
5. Detailed requirements and eligibility criteria for admission to the programme are defined in the admission terms and conditions as approved by the Jagiellonian University Senate.
6. Within 12 months of the commencement of the programme, a doctoral student shall submit an Individual Research Plan (IRP) to the education programme coordinator for their opinion and submission to the Director of the Doctoral School.
7. A doctoral student is required to achieve a minimum of 40 ECTS credits (ECTS – European Credit Transfer and Accumulation System) allocated to the Chemistry education programme and to attain all the required learning outcomes at the Level 8 of the Polish Qualification Framework.
8. Detailed instruction for achieving and assessing learning outcomes shall be specified in the syllabuses of the individual courses.

**II**

**Professional traineeship**

1. Professional traineeship shall take the form of teaching or co-teaching.
2. In agreement with and at the application of the doctoral student, the programme coordinator may accept other forms of professional traineeship, including didactic traineeship, such as conducting classes promoting science, provided that such a form ensures achieving all the learning outcomes allocated to professional traineeship.

3. The rules of traineeship for doctoral students in the Chemistry programme shall be as follows:
  - a. The traineeship can take the form of conducting or co-conducting classes at the Jagiellonian University's Faculty of Chemistry.
  - b. With the approval of the academic supervisor and the consent of the education programme coordinator, it is possible to undertake a traineeship in an external institution. The number of hours allocated for such a traineeship is determined individually.
4. The number of hours of professional traineeship shall not exceed 60 teaching hours (a teaching hour equals 45 minutes) per academic year, and the minimum value shall be determined annually by the education programme coordinator in agreement with the Dean of the Faculty of Chemistry of the Jagiellonian University.

### **III**

#### **Study and research progress assessment**

1. The supervisor(s), in cooperation with the programme coordinator and the Director of the Doctoral School, shall supervise implementing the education programme and the Individual Research Plan of the doctoral student.
2. Annually, but no later than by 17 September, a doctoral student shall submit to the programme coordinator a written report on the implementation of the Individual Research Plan, reviewed by the supervisor(s) and the auxiliary supervisor.
3. The programme coordinator shall assess the degree of implementing the study and research work based on the information from the doctoral student as defined in Point 2, and a report from the University Study-Oriented System (USOS).
4. Changes to the Individual Research Plan, in particular modifying or rescheduling the doctoral student's duties, shall require consulting the programme coordinator.
5. The programme coordinator may decide to reschedule the doctoral student's duties resulting from the education programme and to accept courses or activities not specified in the education programme as part of the performance of the duties (with the relevant allocation of ECTS credits), provided that no changes to the Individual Research Plan are needed.
6. When additional funding is available or in well justified cases, the programme coordinator, in consultation with School representatives of the Jagiellonian University PhD Student Association and the Director of the Doctoral School, may oblige doctoral students to take courses not specified in the education programme.
7. By the end of the 24th month of education, a doctoral student shall be subject to mid-term assessment before the assessment committee appointed by the Director of the Doctoral School.
8. The date of the mid-term assessment is established by the Director of the Doctoral School on the proposal of the programme coordinator.
9. One month before the scheduled meeting of the mid-term assessment committee, the doctoral student shall submit to the programme coordinator a written report on the

implementation of the Individual Research Plan. The report has to be approved by the supervisor(s) and the auxiliary supervisor before submission.

10. Meetings of the mid-term assessment committee shall be attended by the committee members, and the doctoral student in those parts to which they have been invited, in accordance with separate provisions.

## **IV Schedule**

## SCHEDULE FOR THE EDUCATION PROGRAMME IN CHEMISTRY

DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES EDUCATION PROGRAMME IN CHEMISTRY						
Item (name of the course)	Aim	Description	PQF/ PRK*	Semester	No of ECTS	No of hours
<b>OBLIGATORY COURSES WITHIN THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES</b>						
Doctoral seminar		Presentation of PhD student's own results, scientific discussion Assessment: <b>credit with a grade</b>	P8S_WG P8S_UK P8S_KK P8S_WK P8S_UW P8S_KR	IV	3	30
Professional skills development activities		Elective panels for a sum of min. 10 ECTS advanced techniques: computational, structural, synthetic, analytical, spectroscopic, microscopic, advanced technology and environmental Chemistry, BioPharma, optional course for min. 2 ECTS, max. 3 ECTS agreed with the supervisor and education programme coordinator Assessment: <b>examination</b>	P8S_WG P8S_WK P8S_UW P8S_UK	I-IV	10	104
English at C1 level		Assessment: <b>examination</b>	P8S_UK	I-IV	4	60

<b>ELECTIVE JOINT COURSES FOR THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES</b>					
Doctoral School Seminar	A monthly seminar with lectures in English delivered by invited Jagiellonian University researchers and guest researchers. Assessment: <b>credit based on participation</b>	P8S_WG P8S_UW P8S_UK	I-VIII	1	Minimum 6 seminars a year
Modern foreign language	As a second foreign language Assessment: <b>examination</b>	P8S_UU	I-IV	4	60
Polish for foreigners	Assessment: <b>examination</b>	P8S_UU	I-VIII	4	60
Soft skills and general knowledge development	Selected lectures (courses) or workshops Assessment: <b>credit</b>	P8S_UW P8S_KR P8S_WK	I-VIII	max. 3	max. 60 hours
<b>ELECTIVE ACTIVITIES DEVELOPING PROFESSIONAL SKILLS</b>					
General knowledge development	Lectures offered by the Polish Chemical Society, interchangeably with the Faculty seminars and the Doctoral School Seminars; minimum 6 meetings a year Assessment: <b>credit</b>	P8S_WK P8S_UK P8S_KK	I-VIII	1	Minimum 6 seminars a year

Professional skills development	Activities to acquire competences for the implementation of an individual research plan (e.g., summer schools, courses offered at other universities, including foreign universities) Assessment: <b>according to the course syllabus</b>	P8S_UW	I-VIII	No more than 2	Established individually
<b>ACTIVITIES DEVELOPING TEACHING SKILLS</b>					
Workshop course	Introductory course, enabling the implementation of a didactic traineeship Assessment: <b>credit with grade</b>	P8S_UU P8S_UO P8S_WG P8S_KK	III	3	30
Traineeship in academic didactics	Conducting or co-conducting classes Assessment: <b>credit or/and grade</b> on the basis of the opinion issued by a person supervising conducting classes by a PhD student	P8S_UU P8S_KO	I-VIII	12	240 (max. 60/year)
<p><b>Additional obligatory courses:</b></p> <ol style="list-style-type: none"> <li>1. PhD students who start their education in the Doctoral School are required to complete a <b>Health and Safety at Work</b> training / BHP.</li> <li>2. <b>First Aid</b> course (theoretical part and practical part) is to be completed by the end of the 2<sup>nd</sup> semester.</li> <li>3. PhD students who plan research involving vertebrate animals are required to take training to obtain appropriate qualifications.</li> </ol>					

\*PQF /PRK – Polish Qualifications Framework / *Polska Rama Kwalifikacji* in accordance with the Regulation of the Minister of Science and Higher Education on the characteristics of second-level learning outcomes for qualifications at Levels 6-8 of the Polish Qualifications Framework.

<https://prk.men.gov.pl/en/1en/>

Conducting research and preparing a doctoral dissertation within the meaning of Article 187(3) of the Act of 20 July 2018 - Law on Higher Education and Science (i.e. Journal of Laws of 2023, item 742 as amended) fulfills in part achieving all types of learning outcomes for qualifications at Level 8 of the PQF. The achievement of these outcomes is verified by the supervisor.

Doctoral students with disabilities and persons in a special health situation may apply for the adaptation of the education process realisation to their needs, according to the principles specified in the order of the Jagiellonian University Rector.

## V

### **Final provision**

The *Chemistry* education programme in the discipline of chemical sciences at the Doctoral School of Exact and Natural Sciences shall enter into force on the date of the Resolution.