

**English–language Doctoral Programme in Biomedical Sciences,
in the discipline of Biological Sciences
at the Doctoral School of Exact and Natural Sciences**

I

General provisions

1. The PhD programme in Biomedical Sciences 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 PhD programme leads to learning outcomes for qualifications defined as level 8, according to the Polish Qualifications Framework.
3. The PhD programme lasts six or eight terms.
4. Detailed requirements and the admission criteria are defined by the University regulations as accepted by the University Senate.
5. The PhD student submits an Individual Research Plan to the supervisor after 12 months from the day of the commencement of the study programme.
6. A number of ECTS points (European Credit Transfer and Accumulation System) allocated to the study programme Biomedical Sciences is a minimum of 40 points, out of which:
 - a minimum of 30 ECTS points is related to the PhD student's research work and the publication of its results
 - a minimum of 25 ECTS points is obtained by the end of the 4th term.
7. 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. The occupational internship programme is realised 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 popularising science.
3. The number of hours allocated to the 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 study programme manager written information on the implementation of the Individual Research Plan and the assessment of the PhD student's progress.
3. The PhD programme manager evaluates 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 study programme manager.
5. The PhD programme manager 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 term, the PhD student shall be subject to the mid-term evaluation before a committee appointed by the director.
7. The evaluation dates are established by the study programme manager.
8. 30 days before the scheduled committee meeting, the PhD student shall submit to the study programme manager a written report on the implementation of the individual research plan. The report must be approved by the supervisor before submission.

9. The mid-term evaluation committee meeting in the part that concerns presenting by the PhD student's research results and a follow up discussion is public. However, neither the supervisor nor auxiliary supervisor can take part in this part of the committee meeting. In the classified part of the meeting, the committee discusses the result of the mid-term evaluation and prepares the justification of the verdict.

IV

Schedule

Study Programme in Biological Sciences

Doctoral School of Exact and Natural Sciences		Study Programme: Biological Sciences				
Item	Objective	Description	PQF*	Term	ECTS	No of hours
Obligatory activities within the Doctoral School of Exact and Natural Sciences (32 ECTS points)						
Foreign language course		English classes at C1 level for Polish PhD students who do not hold a C1 certificate or are not graduates of master studies conducted in English. Polish language for foreigners. Assessment: exam	P8S-UU	I-IV	4	60
Laboratory classes (modules to be selected by the PhD student)		Activities run by MCB, JCET and Solaris Group Leaders which cover various aspects of biological and biomedical sciences. These activities start with Welcome Day when Group Leaders present their work during the seminars. The PhD student can choose 5 modules which lasts 1-2 weeks each. During the seminars and module activities the PhD student gets familiar with research equipment available at MCB, JCET and	P8S-WG P8S-UW	I-II	15	300

	Solaris. Assessment: written report				
PhD student consultations with the Thesis Advisory Committee (TAC)	Thesis Advisory Committee (TAC) consists of: Group Leader, Supervisor, MCB, CET or Solaris staff member, and a person (holding PhD degree) from outside these units, who can be indicated by the PhD student. Establishing the TAC and its first consultation/advisory meeting have to take place within the first six months of the studies/programme. The consultation consists of: presentation – 30 mins, discussion – 30 mins, discussion without Group Leader and Supervisor –15 mins, formulating conclusions and advisory session – 15 mins. The PhD student organizes one meeting every 12 months.	P8S-WG P8S-KK P8S-UK P8S-UU	I-IV	2 (1/2 a year)	50
PhD student's presentations	As part of the Study Programme, each PhD student presents a poster (1 st year), an oral presentation (2 nd year) during the annual summer school organized by the MCB. The 3 rd year PhD student presents his/her research results at the Golden seminar at the MCB; in the final year (4th year) the PhD student is obliged to organise their own symposium at the MCB or JCET.	P8S-UK P8S-UW	I-IV	2 (1/2 a year)	50
Interdisciplinary seminar	Participation in a series of seminars at MCB and JCET (Golden, Silver and Diamond seminars)	P8S-KK P8S-WG P8S-UK	I-IV	8	200

International conference	Active participation in at least one international conference.	P8S-UK P8S-WG	I-IV	1	25
Optional activities (minimum 2 ECTS points)					
Professional skills development; preparation for research or R&D work	Communicating research results (posters, abstracts, preparation of results and illustrations for publication), team communication, communication with a superior, preparation of grant applications, statistical analysis and bioinformatics, effective negotiations, research projects management and research team work, social media in science. Assessment: written report / exam	P8S-UU P8S-WK P8S-UK P8S-UW	I – IV	3	70
Cross-sectoral activities	Career Days – meetings with the representatives of the scientific industry, winners of research grants to see their tutoring methods, entrepreneurs (from biotech companies), and scientific journal editors; The meeting are organised by PhD students to recognise alternative professional paths. Assessment: written report	P8S-WK P8S-UW	I-IV	1	25
Outreach activities	Active participation in the activities aimed at popularising science, e.g. Researchers' Night, Children's University, etc.	P8S-UU P8S-KO P8S-UU	I-IV	1	25

General knowledge development course	One course 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 30 hours.	60 hours or 30 hours
Optional joint activities for the Doctoral School of Exact and Natural Sciences (minimum 2 ECTS points)					
Polish language for foreigners	Polish for foreign PhD students Assessment: exam	P8S-UU	I-VIII	4	60 hours
Foreign language course	Modern foreign language course Assessment: exam	P8U-UU	I-VIII	4	60 hours
Soft skills development course	A course selected from a range of courses offered before a given academic year, e.g. career planning, managerial skills, business communication. Assessment: written report	P8S-WK P8S-KR P8S-KO	I-VIII	2 for 30 hours	30 hours
Doctoral School of Pure and Biological Sciences seminar	A monthly interdisciplinary seminar with lectures in English delivered by invited Jagiellonian University researchers and guest researchers. Assessment: credit	P8S_WG P8S_UW P8S_UK	I-VIII	4 (1x4)	6 seminars a year
Optional activities to develop professional skills (minimum 0 ECTS points)					
Other courses and activities leading to attaining competences to accomplish IRP	For example, summer schools, courses completed at other universities, including foreign universities. Assessment: credit	P8S-UW P8S-UK P8S-UU	I-VIII	1/2	30 hours or 60 hours

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Additional training

1. The PhD students entering their study programme are required to complete training in Health and Safety in Education by the end of the 2nd term of their studies, if they have not participated in such a course at the earlier stages of their education at the Jagiellonian University
2. First Aid course
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 second degree learning outcomes for qualifications at the levels 6-8 of the Polish Qualifications Framework.