

Technical Computer Science

English-language Study Programme in Technical Computer Science at the Doctoral School of Exact and Natural Sciences

I

General provisions

1. The study programme in Computer Science has been developed 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 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 primary language of the study program is English.
5. Detailed requirements and the admission criteria are defined by the University regulations as accepted by the University Senate.
6. Within 3 months from the date of commencing the study programme, a supervisor or supervisors shall be appointed in the mode provided for in the Doctoral School Regulations.
7. Within 12 months of the date of commencing the study programme, the PhD student submits to the Head of PhD programme an Individual Research Plan. The Individual Research Plan covers a period equal to the duration of the study programme and specifies the date of submitting the doctoral dissertation.
8. By the end of the second week of education at the school, the doctoral student shall submit to the supervisor a plan for the implementation of their study programme for the given academic year. Starting from the second year, this plan requires the prior approval of the supervisor.
9. During the study programme, the PhD student is required to obtain a minimum of 40 ECTS points, in accordance with the schedule and within the courses approved by the Head of PhD programme.
10. The detailed rules on achieving learning outcomes and the manner of their evaluation are specified in individual course syllabus.

II

Occupational internship

1. Occupational internships programmes are realized in the form of conducting classes with students or by assisting in this process. Occupational internships can also take the form of conducting activities with the purpose of popularizing science.
2. The internship programme can be realized in the form of an internship in a company, a foundation, etc.
3. The regulations for doctoral student didactic internships for those studying on the Technical Computer Science programme are established by the Head of PhD programme.
4. 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 implementation of the study programme and realization of the Individual Research Plan by the PhD student is monitored by the supervisor.
2. By the of 2nd and 6th term, the PhD student submits to the Head of PhD programme their report on the implementation of the study programme and Individual Research Plan. Before submission this report is evaluated by the supervisor.
3. The Head of PhD programme evaluates the implementation of the study programme and research programme on the basis of the report submitted by the PhD student.
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 study 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 term, the PhD student shall be subject to a mid-term evaluation before a committee appointed by the director. The evaluation dates are established by the Head of PhD programme.
7. 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 their study programme and the Individual Research Plan. Before submission, the report must be approved by the supervisor.
8. Members of the committee and the PhD student (in the parts to which the PhD student was invited) participate in the meetings of the committee conducting the mid-term evaluation.
9. In the case of commencement of education at a date other than the beginning of the academic year, a semester is defined as a period of consecutive 6 months of doctoral education.

IV

Schedule for the study programme in Technical Computer Science

Doctoral School of Exact and Natural Sciences Study Programme: Technical Computer Science					
Item	Objective, Description	PQF*	Term	ECTS	Limit
OBLIGATORY ACTIVITIES AT THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES (MINIMUM 25 ECTS POINTS; WITH A C1 LANGUAGE CERTIFICATE 21 ECTS POINTS)					
Foundation seminar	Participation in a research seminar devoted to the recent achievements and research results in a given discipline. Assessment: credit depending on active participation in a seminar	P8S_WG, P8S_UW, P8S_KK	I-VIII	1-2 for 30 hours	12 ECTS minimum
Specialist courses	At least one course/lecture selected by the doctoral student: Presentation of the foundations or current research problems of a given discipline. Assessment: exam	P8S_WG, P8S_UW	I-IV	6 for a lecture with classes/labs 3 for a lecture without classes/labs	6 ECTS minimum
Doctoral seminar I	Preparation for research work. Assessment: credit	P8S_UK,P8S_KR	II	1	1 ECTS
Doctoral seminar II	Preparation for research work. Presentation of PhD student's research. Assessment: credit	P8S_UK,P8S_UO, P8S_KR	IV	2	2 ECTS
English language course	English classes at C1 level for doctoral students who do not hold a C1 certificate or are not graduates of master studies conducted in English. Assessment: exam	P8S_UU	I-II	4 for 60 hours	4 ECTS
OPTIONAL JOINT ACTIVITIES FOR THE DOCTORAL SCHOOL OF EXACT AND NATURAL SCIENCES					
Doctoral School seminar	A monthly interdisciplinary seminar with English lectures led by invited researchers. Assessment: credit on the basis of attendance	P8S_WG, P8S_UW	I-VIII	1 a year	
Modern foreign language course	Second foreign language. Assessment: exam	P8S_UU	I-IV	4 for 60 hours	
Polish language for foreigners	Assessment: exam	P8S_UU	I-VIII	4 for 60 hours	
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_WK	I-VIII	2 for each 30 hours	

Personal competence and softskills 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	I-VIII	2 for each 30 hours	
OPTIONAL ACTIVITIES TO DEVELOP PROFESSIONAL SKILLS					
Optional classes to be selected by the PhD student	Lectures (3 ECTS for 30 hours); Seminars (2-4 ECTS for 60 hours depending on a number of the PhD student's presentations); Reading (2 ECTS for studying a publication, which is equivalent to a 30- hour course); Workshops that develop soft skills and are organized by the Faculty of Mathematics and Computer Science, Faculty of Physics, Astronomy and Applied Computer Science or Faculty of Management and Social Communication.	P8S_UU,P8S_WG	I-VIII	See description	
OCCUPATIONAL INTERNSHIP					
In-company internship	Optional internship in a company. Assessment: on the basis of a company certificate; done by the Head of PhD programme	P8S_UU,P8S_KO	III-VIII	1 for each 30 hours	No more than 6 ECTS
Didactic internships	Preparation for work as an academic teacher, including running classes. Assessment: on the basis of the opinion of the person monitoring classes given by the PhD student; done by the Head of PhD programme	P8S_UU,P8S_UK	I-VIII	8 for 150 hours	In total no more than 8 ECTS
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 2 nd 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 completed by the end of the 2 nd 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 second degree learning outcomes for the qualifications at the levels 6-8 of the Polish Qualifications Framework.

V

Final provisions

The study programme Technical Computer Science in the discipline of computer science at the Doctoral School of Exact and Natural Sciences enters into force on the day of the adoption of the Resolution.