

Field of study: Quantum Physics and Chemistry - Individual Research Studies

2-year second cycle programme, full-time
Academic year: 2026/20276

First year, semester 1

Course name/group of courses	Course code	Type of course	Option A		Option B*		Verification of learning outcomes
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Intellectual property and entrepreneurship or Intellectual property and entrepreneurship with team project (Option A or Option B) ¹	1100-4IPE or 1100-4AF16	lecture	30	2	30	5	written exam
		project	0	0	75		project
Landscape of Quantum Physics and Chemistry	1100-LQFC	workshops	9	1	9	1	written work
Specialistic seminar or Workshop in a research group		seminar workshops	30	2	30	2	written work or presentation
Activities specified in the Individual Study Plan (IPS) ²			500	20	425	17	specified in the IPS
Social Activity in Academic Space ³	1100-4QPC11		60	2	60	2	written report
General University Course (OGUN) ⁴		lectures	30	3	30	3	specified in the course syllabus
In total (1st semester)			659	30	659	30	

¹ A choice between Option A and Option B for the entire duration of studies is required.

² In accordance with the general rules of the study program (attached)

³ Classes can also be completed in the second semester or in the second year, provided that the number of ECTS points taken within the IPS in the first semester is increased by 2 at the expense of ECTS points taken within the IPS at the appropriate stage of studies

⁴ It is required to complete 5 ECTS subject in the field of humanities or social sciences as part of the study program

First year, semester 2

Course name/group of courses	Course code	Type of course	Option A		Option B		Verification of learning outcomes
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Introduction to Philosophy	1100-IP	seminar classes	30	3	30	3	specified in the course syllabus
Specialistic seminar or Workshop in a research group		seminar workshop	30	2	30	2	written work or presentation
Activities specified in the Individual Study Plan (IPS)			575	25	575	25	specified in the IPS
In total (2nd semester)			635	30	635	30	

Second year, semester 3

Course name/group of courses	Course code	Type of course	Option A*		Option B*		Verification of learning outcomes
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Work placement ⁵	1100-WP	internship	80	4	80	4	graded
Specialistic seminar or Workshop in a research group		seminar workshop	30	2	30	2	written work or presentation
Team project ⁶	1100-TP	project	75	5	0	0	written report
Activities specified in the Individual Study Plan (IPS) ⁷	including 1100-PRP	workshop	400	16	525	21	specified in the IPS
General University Course (OGUN) ⁴		lectures	30	3	30	3	specified in the course syllabus
In total (3rd semester)			615	30	665	30	

⁴ It is required to complete 5 ECTS subjects in the field of humanities or social sciences as part of the study program.

⁵ Work placements are passed based on a written substantive report in which the student presents the scope of tasks performed during the internships. The report is confirmed by a representative of the internship organizer. The report is reviewed by the internship supervisor or assistant internship supervisor, who propose an assessment for the internship.

⁶ A team project can be completed within a dedicated course or as part of other courses in the study program, provided that the organization of the subject's classes involves teamwork.

⁷ It is required to complete at least 2 ECTS for the preparation of a research project together with an application for its financing, under the supervision of a tutor or tutor.

Second year, semester 4

Course name/group of courses	Course code	Type of course	Number of hours	Number of ECTS points	Verification of learning outcomes
Proseminar Challenges of the modern times	1100-PCMT	seminar	20	2	presentation and participation
Specialistic seminar or Workshop in a research group		seminar workshop	30	2	written work or presentation
A course shaping the skills of scientific and popular science communication*	1100-SPSC		30	3	specified in the syllabus and oral presentation
Diploma project	1100-DP	workshop	240	23	pass/fail (no grade)
In total (4th semester)			320	30	

* Shaping and developing scientific and popular science communication skills by participating in presentations devoted to scientific content. Obligatory preparation of your own presentation.

In total	Option A		Option B	
	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points
1 year	1294	60	1294	60
2 year	935	60	985	60
1 and 2 year	2229	120	2279	120