

Field of study: *Physics (Studies in English)*

Profile: general academic

2-year second cycle programme, full-time

Academic year: 2026/2027

Specialization: Optics

First year, semester 1

Course title	Course code	Type of course	Option A		Option B		Learning outcomes assessment
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Physics Laboratory, 2nd level A	1100-4PLA	lab	45	5	45	5	written report (graded <sup>#</sup> )
Elective course from the list Advanced Quantum Mechanics or a course related to mechanics or quantum optics from the Topics in Contemporary Physics list		lecture	30	6	30	6	written or oral exam
		exercises	30		30		
Intellectual property and entrepreneurship (Option A) or Intellectual property and entrepreneurship with team project (Option B)	1100-4IPE or 1100-4AF16	lecture	30	2	30	5	written exam
		project	0	0	75		project
Subject to choose from the Numerical analysis list			60	6	60	6	written exam or graded pass
Electives from the Topics in contemporary physics list			60	6	30	3	written exam or graded
Specialist elective subjects			30	3	30	3	written exam
<b>In total</b>			<b>285</b>	<b>28</b>	<b>330</b>	<b>28</b>	

<sup>#</sup> Passing with a grade means that the grade is awarded based on one or more written assessments conducted during the course of the didactic classes or based on one or more written assignments carried out during the period of didactic classes, following the subject's syllabus.

First year, semester 2

Course title	Course code	Type of course	Number of hours	Number of ECTS points	Learning outcomes assessment
Introduction to Philosophy	1100-IP	seminar classes	30	3	graded
Proseminar: Optics	1100-4PO	seminar	30	3	graded
Optics Laboratory I	1100-4OL	lab	210	18	graded
Specialist elective subjects			60	6	written exam
<b>In total</b>			<b>330</b>	<b>30</b>	

Second year, semester 3

Course title	Course code	Type of course	Option A		Option B		Learning outcomes assessment
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Team project*	1100-ZPS2	project	75	5	0	0	graded
Specialist elective subjects			45	4	45	4	written exam or graded
Optics Laboratory II	1100-5OL2	lab	210	18	210	18	grade
Optics Seminar	1100-4sOS	seminar	30	2	30	2	grade
<b>In total</b>			<b>360</b>	<b>29</b>	<b>285</b>	<b>24</b>	

\* 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.

Second year, semester 4					
Course title	Course code	Type of course	Number of hours	Number of ECTS points	Learning outcomes assessment
Work placement**	1100-WP	internship	80	4	written report (graded)
Proseminar Challenges of the modern times	1100-PCMT	seminar	20	2	graded
Optics Seminar	1100-4sOS	seminar	30	2	graded
OGUN (General University Courses)***			60	6	written exam or graded
Optics Laboratory III	1100-5OL3	workshop	210	19	submission of a master's thesis accepted by the supervisor
<b>In total</b>			<b>400</b>	<b>33</b>	

\*\* 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.

\*\*\* The completion of 5 ECTS from subjects in the fields of humanities or social sciences is required as part of the study program.

In total	Option A		Option B	
	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points
1 year	615	58	660	58
2 year	760	62	685	57
1 and 2 year	1375	120	1345	115

#### Comments:

# Passing with a grade means that the grade is awarded based on one or more written assessments conducted during the course of the didactic classes or based on one or more written assignments carried out during the period of didactic classes, following the subject's syllabus.

\* 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.

\*\* 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.

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