

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

Profile: general academic

2-year second cycle programme, full-time

Academic year: 2024/2025

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 (grade#)
Elective course from the Statistical physics list	1100-4SPA or 1100-4SPB	lecture	45	7	45	7	written or oral exam
		exercises	45		45		
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			30	3	30	3	written exam or grade
Electives from the Topics in contemporary physics list			60	6	30	3	written exam or grade
Specialist elective subjects			60	6	60	6	written or oral exam
In total			315	29	360	29	

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	30	3	grade
Subject to choose from the Numerical analysis list			30	3	written exam or grade
Proseminar: Optics	1100-4PO	seminar	30	3	grade
Optics Laboratory I	1100-4OL	lab	180	16	grade
Specialist elective subjects			60	6	written or oral exam
In total			330	31	

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-TP or 1100-ZPS2	project	75	5	0	0	grade
Specialist elective subjects			60	6	60	6	written exam or grade
Optics Laboratory II	1100-5OL2	lab	210	19	210	19	grade
Optics Seminar	1100-4sOS	seminar	30	2	30	2	grade
In total			375	32	300	27	

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 (grade)
Proseminar Challenges of the modern times	1100-PCMT	seminar	20	2	grade

Optics Seminar	1100-4sOS	seminar	30	2	grade
OGUN (General University Courses)*			30	6	written exam or grade
Optics Laboratory III	1100-5OL3	workshop	210	19	submission of a master's thesis accepted by the supervisor
In total			370	33	

In total	Option A		Option B	
	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points
1 year	645	60	690	60
2 year	745	65	670	60
1 and 2 year	1390	125	1360	120

Comments:

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

** 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.

*** Option A is obligatory for those students who did not complete a team project during the first year

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.