

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

**Profile: general academic**

2-year second cycle program, full-time

**Academic year: 2026/2027**

Specialization: **Theoretical Physics**

### First year, semester 1

			Option A		Option B		
Course title	Course code	Form of classes	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	Learning outcomes assessment
Physics Laboratory, 2nd level A	1100-4PLA	lab	45	5	45	5	graded <sup>#</sup> written report
Course selected from the list Statistical physics	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 graded
Elective course from the Advanced Quantum Mechanics list		lecture	30	6	30	6	written or oral exam
		exercises	30		30		
Electives from the Topics in contemporary physics list			30	3	30	3	written exam or graded
Specialist seminar		seminar	30	2	30	2	graded written report
OGUN (General University Courses)*			30	3	30	3	written exam or graded
<b>In total (1st semester)</b>			<b>345</b>	<b>31</b>	<b>420</b>	<b>34</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.

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

### First year, semester 2

			Option A		Option B		
Course title	Course code	Form of classes	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	Learning outcomes assessment
Introduction to Philosophy	1100-IP	seminar classes	30	3	30	3	graded
Subject to choose from the Numerical analysis list			30	3	30	3	written exam or graded
Electives from the Topics in contemporary physics list (Option A or Option B)			180	18	150	15	written exam or graded
Specialist seminar		seminar	30	2	30	2	graded
OGUN (General University Courses)*			30	3	30	3	written exam or graded
<b>In total (2nd semester)</b>			<b>300</b>	<b>29</b>	<b>270</b>	<b>26</b>	

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Second year, semester 3							
Course title	Course code	Form of classes	Option A		Option B		Learning outcomes assessment
			Number of hours	Number of ECTS points	Number of hours	Number of ECTS points	
Work placement**	1100-WP	internship	80	4	80	4	written report (graded)
Team project***	1100-ZPS2	project	75	5	0	0	graded
Electives from the Topics in contemporary physics list			120	12	120	12	written exam or graded <sup>a</sup>
Specialist seminar		seminar	60	4	60	4	graded
Workshop in theoretical physics I	1100-5WTP1	workshop	120	10	120	10	graded
In total (3rd semester)			<b>455</b>	<b>35</b>	<b>380</b>	<b>30</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.

\*\*\* 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	Form of classes	Number of hours	Number of ECTS points	Learning outcomes assessment
Proseminar Challenges of the modern times	1100-PCMT	seminar	20	2	graded
Proseminar Theoretical physics	1100-5sTP	seminar	30	3	graded
Workshop in theoretical physics II	1100-5WTP2	workshop	240	25	submission of a master's thesis accepted by the supervisor
In total (4th semester)			<b>290</b>	<b>30</b>	

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:

# Written exam or graded in accordance with the syllabus of the course (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)

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

\*\* 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.

\*\*\* 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.