

WYDZIAŁ FIZYKI UW

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

Profile: general academic

2-year second cycle programme, full-time

Academic year: 2025/2026

Specialization: Particle 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	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
Elective course from the Advanced Quantum Mechanics list		lecture	30	6	30	6	written or oral exam
		exercises	30		30		
Modern Experimental Particle Physics I	1100-4MEPP1	lecture	30	4	30	4	written exam
Specialist seminar		seminar	30	2	30	2	grade
In total			315	29	390	32	

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	30	3	30	3	grade
Subject to choose from the Numerical analysis list			30	3	30	3	written exam or grade
Specialization laboratory I, Particle Physics	1100-SLPP	lab	100	10	100	10	written reports (grade)
Specialist seminar		seminar	30	2	30	2	grade
Modern Experimental Particle Physics II	1100-4MEPP2	lecture	30	4	30	4	written exam
Computing in Experimental Particle Physics		workshop	30	3	30	3	grade
Specialist lecture		lecture	30	2	30	2	written exam or grade
General University Courses (OGUN)*			40	4	10	1	written exam or grade
In total			320	31	290	28	

Second year, semester 3							
			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
Work placement	1100-WP	internship	80	4	80	4	written report (grade)
Team project**	1100-TP or 1100-ZPS2	project	75	5	0	0	grade
Particle physics laboratory I	1100-PPL1		210	19	210	19	grade
Specialist seminar		seminar	30	2	30	2	grade
OGUN (General University Courses)*			20	2	70	7	written or oral exam or grade
In total			415	32	390	32	

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	grade
Proseminar Particle Physics	1100-5sPPP	seminar	30	3	grade
Specialist lecture		lecture	30	2	written exam or grade
Specialist seminar		seminar	30	2	grade
Particle physics laboratory II	1100-PPL2	lab	210	19	submission of a master's thesis accepted by the supervisor
In total			320	28	

	Option A		Option B	
	Number of hours	Number of ECTS points	Number of hours	Number of ECTS points
In total				
1 year	635	60	710	63
2 year	735	60	710	60
1 and 2 year	1370	120	1420	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.