

# WYDZIAŁ FIZYKI UW

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

2-year second cycle programme, full-time

Academic year: **2021/2022**

Specialization: **Optics**

### First year, semester 1

	Course name/ group of courses	Type of course	Number of hours		Verification of effects related to the course	Total number of ECTS points
1	Physics Laboratory, 2nd Level A1 or Physics Laboratory, 2nd Level A2	laboratory class	45	45	grade	5
2	Courses selected from the list Statistical physics	lecture	45	90	exam: written or oral	7
		exercises	45			
3	Intellectual property and entrepreneurship or Intellectual property and entrepreneurship with team project	lecture/lecture and project	30/105	30/105	written exam/ project	2/5

### First year, semester 2

	Course name/ group of courses	Type of course	Number of hours		Verification of effects related to the course	Total number of ECTS points
1	Introduction to Philosophy	lecture	30	30	grade	3
2	Proseminar: Optics	seminar	30	30	grade	3
3	Optics Laboratory I	laboratory class	180	180	grade	16

### Other courses to be completed in the 1<sup>st</sup> and/or 2<sup>nd</sup> semester

	Course name/ group of courses	Type of course	Number of hours		Verification of effects related to the course	Total number of ECTS points
1	Courses selected from the list Numerical analysis		60	60	written exam or grade	6
2	Courses selected from the list Topics in contemporary physics - electives (Option A or/ Option B)		60/30	60/30	written exam or grade	6/3
3	Selected specialization courses		120	120	written exam	12
In total			min.645	min.645		60

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Second year, semester 1						
	Course name/ group of courses	Type of course	Number of hours		Verification of effects related to the course	Total number of ECTS points
1	Optics Laboratory II	laboratory class	210	210	grade	19
2	Optics seminar	seminar	60	60	grade	4
Second year, semester 2						
	Course name/ group of courses	Type of course	Number of hours		Verification of effects related to the course	Total number of ECTS points
1	Proseminar Challenges of the modern times	seminar	20	20	grade	2
2	Optics Laboratory III	workshop	210	210	pass/fail (no grade)	19
Other courses to be completed in the 1 <sup>st</sup> and/or 2 <sup>nd</sup> semester						
	Course name/ group of courses	Type of course	Number of hours		Verification of effects related to the course	Total number of ECTS points
1	Work placement		80	80	pass/fail (no grade)	4
2	Team project**	project	75	75	grade	5
3	Selected specialization courses		60	60	written exam or grade	6
4	General courses (OGUN)*		30	30	written exam or grade	6
	In total		min.670	min.670		60/65

\*in total 6 ECTS required within the duration of the programme, including 5 ECTS points unrelated to physical sciences, i.e. humanities and social sciences;

\*\* Team project can be completed as a separate course or within a course if the course coordinator requires team work