

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

2-year second cycle programme, full-time

Academic year: 2020/2021

Specialization: **Computer Modeling of Physical Phenomena**

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
4	Courses selected from the list Advanced quantum mechanics	lecture	30	60	written exam	6
		exercises	30			
5	Selected seminar	seminar	30	30	grade	2

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	Workshop on computer modeling		105	105	written exam or grade	9
3	Selected seminar	seminar	30	30	grade	2

Other courses to be completed in the 1st and/or 2nd 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)	lecture	150/120	150/120	written exam or grade	15/12
3	General courses (OGUN)*		30	30	written exam or grade	3
	In total		min.660	min.660		60

*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;

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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	Selected specialization seminar	seminar	30	30	grade	2
2	Workshop in advanced computer modeling I	workshop	135	135	grade	13

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	Selected specialization seminar	seminar	30	30	grade	2
3	Proseminar Theoretical physics	seminar	30	30	grade	3
4	Workshop in advanced computer modeling II	workshop	225	225	grade	22

Other courses to be completed in the 1st and/or 2nd 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	Courses selected from the list Topics in contemporary physics		90	90	written exam or grade	9
4	General courses (OGUN)*		30	30	written exam or grade	3
In total			min.670	min.670		60/65

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