

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

2-year second cycle programme, full-time

Academic year: 2021/2022

Specialization: **Theoretical Physics**

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	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)		210/180	210/180	written exam or grade	21/18
3	General courses (OGUN)*		60	60	written exam or grade	6
In total			min.645	min.645		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 seminar	seminar	30	30	grade	2
2	Workshop in theoretical physics I	workshop	120	120	grade	10

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	Proseminar Theoretical physics	seminar	30	30	grade	3
3	Workshop in theoretical physics II	workshop	240	240	pass/fail (no grade)	25
4	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	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		120	120	written exam or grade	12
In total			min.670	min.670		60/65

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