

Faculty of Sciences

Preparatory Course Master of Science in Physics and Astronomy

Language of instruction: Dutch

Programme version 1

1 General Courses

Subscribe to 1 module from the following list. Subject to approval by the faculty.

1.1 For intake of Bachelor Mathematics

Subscribe to no less than 58 and no more than 82 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004208 Waves and Optics <i>Henk Vrielinck -- Department of Solid State Sciences</i>	5			A:2	150
2	C004218 Physics and Astronomy Laboratory 2 [en, nl] <i>Bartel Van Waeyenberge -- Department of Solid State Sciences</i>	6			A:J	180
3	C004212 Python for Scientists [en] <i>Toon Verstraeten -- Department of Physics and Astronomy</i>	5			A:1	150
4	C002240 Quantum Mechanics 1 <i>Jan Ryckebusch -- Department of Physics and Astronomy</i>	6	a		A:1	180
5	C004214 Galaxies <i>Ilse De Looze -- Department of Physics and Astronomy</i>	6	a		A:2	180
6	C004215 Materials Physics <i>Jolien Dendooven -- Department of Solid State Sciences</i>	5			A:2	150
7	C004216 Relativity and Electromagnetism [en] <i>Archisman Ghosh -- Department of Physics and Astronomy</i>	6	a		A:2	180
8	C002245 Quantum Mechanics 2 <i>Nick Bultinck -- Department of Physics and Astronomy</i>	6	a		A:1	180
9	C004220 Statistical Physics <i>Jan Ryckebusch -- Department of Physics and Astronomy</i>	6			A:1	180
10	C004221 Structure of the Universe <i>Arjen van der Wel -- Department of Physics and Astronomy</i>	6			A:1	180
11	C004222 Atomic and Molecular Physics <i>Jonas Joos -- Department of Solid State Sciences</i>	5			A:2	150
12	C001063 Solid State Physics <i>Christophe Detavernier -- Department of Solid State Sciences</i>	6			A:2	180
13	C004223 Nuclear Physics [en] <i>Natalie Jachowicz -- Department of Physics and Astronomy</i>	4			A:2	120
14	C004224 Elementary Particle Physics [en] <i>Didar Dobur -- Department of Physics and Astronomy</i>	4			A:2	120
15	C004228 Bachelor's Project Physics and Astronomy [en, nl] <i>Matthieu Boone -- Department of Physics and Astronomy</i>	6			A:J	180

1.2 Intake for Bachelor Engineering Physics

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004218 Physics and Astronomy Laboratory 2 [en, nl] <i>Bartel Van Waeyenberge -- Department of Solid State Sciences</i>	6			A:J	180
2	C004212 Python for Scientists [en] <i>Toon Verstraeten -- Department of Physics and Astronomy</i>	5			A:1	150
3	C004214 Galaxies <i>Ilse De Looze -- Department of Physics and Astronomy</i>	6			A:2	180

4	C004217	Groups and Representations <i>Frank Verstraete -- Department of Physics and Astronomy</i>	4	A:2	120
5	C004221	Structure of the Universe <i>Arjen van der Wel -- Department of Physics and Astronomy</i>	6	A:1	180
6	C004222	Atomic and Molecular Physics <i>Jonas Joos -- Department of Solid State Sciences</i>	5	A:2	150
7	C004223	Nuclear Physics [en] <i>Natalie Jachowicz -- Department of Physics and Astronomy</i>	4	A:2	120
8	C004224	Elementary Particle Physics [en] <i>Didar Dobur -- Department of Physics and Astronomy</i>	4	A:2	120

Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/Serbian	zh: Chinese
cs: Czech	el: Greek	fr: French	nl: Dutch	pt: Portuguese	sl: Slovene	
da: Danish	en: English	it: Italian	no: Norwegian	ru: Russian	sv: Swedish	

Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned.

When a semester is shown in brackets, the course is not offered this year in the specific offering.

The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually	c: annually, from 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	g: bi-annually, from 2027-2028	j: bi-annually, from 2028-2029
	e: tri-annually, from 2026-2027	h: tri-annually, from 2027-2028	k: tri-annually, from 2028-2029