

Faculty of Engineering and Architecture

Master of Science in Silicon Photonics

Language of instruction: English

Programme version 1

1 General Courses 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E030410 Photonic Integrated Circuits: from Concept to Application <i>Wim Bogaerts -- Department of Information Technology</i>	8		1	A:J	240
2	E030420 Theory of Photonic Integrated Circuits <i>Dries Van Thourhout -- Department of Information Technology</i>	6		1	A:1	180
3	E030430 Integrated Lasers <i>Geert Morthier -- Department of Information Technology</i>	4		1	A:1	120
4	E030440 Materials for Photonic Integrated Circuits <i>Jeroen Beeckman -- Department of Electronics and Information Systems</i>	4		1	A:1	120
5	E030450 Processing and Packaging Technologies for Photonic Integration <i>Geert Van Steenberge -- Department of Electronics and Information Systems</i>	4		1	A:2	120
6	E030460 Electronics for Photonic Integrated Circuits <i>Johan Bauwelink -- Department of Information Technology</i>	4		1	A:1	120

2 Elective Courses 12 credits

Subscribe to 12 credit units from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E030480 Integrated Photonic (Bio)Sensing <i>Nicolas Le Thomas -- Department of Information Technology</i>	4		1	A:2	120
2	E023940 Non-linear Optics <i>Bart Kuyken -- Department of Information Technology</i>	4		1	A:1	120
3	E006500 Quantum Optics <i>Bart Kuyken -- Department of Information Technology</i>	4		1	C:1	120
4	E030782 Micro- and Nanophotonic Semiconductor Devices <i>Dries Van Thourhout -- Department of Information Technology</i>	4		1	A:2	120
5	E030890 Technological Processes for Photonics and Electronics: Laboratory <i>Günther Roelkens -- Department of Information Technology</i>	4		1	A:J	120
6	E030470 Optical Communication and Information Processing <i>Geert Morthier -- Department of Information Technology</i>	4		1	A:2	120

3 Master's Dissertation 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091108 Master's Dissertation	18		1	A:J	540

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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030