

Programme jointly offered by Ghent University, Vrije Universiteit Brussel

Master of Science in Photonics Engineering

Language of instruction: Dutch

Programme version 11

1 General Courses 68 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E900450 Optical Materials <i>Vrije Universiteit Brussel, Guy Verschaffelt</i>	6		1	B:1	180
2	E900460 Microphotonics <i>Vrije Universiteit Brussel, Heidi Ottevaere</i>	6		1	B:1	180
3	E900480 Lasers <i>Vrije Universiteit Brussel, Nathalie Vermeulen</i>	4		1	B:1	120
4	E900490 Introduction to Entrepreneurship <i>Vrije Universiteit Brussel, Nikolay Dentchev</i>	3		1	B:1	90
5	E900470 Mathematics in Photonics <i>Vrije Universiteit Brussel, Martin Virte</i>	4		1	B:1	120
6	E030721 Laboratories in Photonics Research <i>Alberto Curto -- Department of Information Technology</i>	6		1	B:2	180
7	E012420 Optical Communication Systems <i>Geert Morthier -- Department of Information Technology</i>	6		1	B:2	180
8	E008446 Sensors, Actuators and Electronic Microsystems <i>Herbert De Smet -- Department of Electronics and Information Systems</i>	6		1	B:2	180
9	E031521 Physics of Semiconductor Technologies and Devices <i>Geert Van Steenberge -- Department of Electronics and Information Systems</i>	4		1	B:2	120
10	F000892 Innovation Management <i>Katrien Verleye -- Department of Marketing, Innovation and Organisation</i>	3		1	B:2	90
11	E900510 Recent Trends in Photonics <i>Vrije Universiteit Brussel, Hugo Thienpont</i>	4		2	B:1	120
12	E030961 Design of Refractive and Diffractive Optical Imaging Systems <i>Vrije Universiteit Brussel, Michael Vervaeke</i>	4		2	B:1	120
13	E030881 Optical Design of Non-Imaging Systems with Ray-tracing Software <i>Vrije Universiteit Brussel, Wendy Meulebroeck</i>	4		2	B:1	120
14	E032411 Display Technology	4		2		120
15	E030890 Technological Processes for Photonics and Electronics: Laboratory <i>Günther Roelkens -- Department of Information Technology</i>	4		2	B:J	120

2 Elective Courses 22 credits

Subscribe to 22 credit units from the elective courses from the Master of Science in Photonics or the programmes of the Faculty of Engineering and Architecture (Ghent University) or the Faculty of Engineering (VUB). Subject to approval by the faculty.

3 Master's Dissertation 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091106 Master's Dissertation <i>UGent - VUB</i>	30		2	B:J	900

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