GHENT UNIVERSITY

Study Programme

Academic year 2025-2026

Programme jointly offered by Ghent University,Université Catholique de Louvain,University of Liège,Université libre de Bruxelles,Vrije Universiteit Brussel,KU Leuven

Master of Science in Nuclear Engineering

Language of instruction: English

Programme version 2

1 General Courses — 31 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E038540	Nuclear Energy: Introduction *William D'haeseleer -- KU Leuven*	3		1	A:1	90
2	E038701	Introduction to Nuclear Physics and Measurements *Nicolas Pauly -- Université libre de Bruxelles*	3		1	A:1	90
3	E038501	Radiation Protection *Klaus Bacher -- Department of Human Structure and Repair*	3		1	A:1	90
4	E038581	Nuclear Reactor Theory *William D'haeseleer -- KU Leuven*	6		1	A:2	168
5	E038681	Nuclear Fuel Cycle	3		1	A:1	90
6	E038641	Nuclear Materials *Marc Scibetta -- University of Liège*	3		1	A:1	90
7	E038621	Nuclear Thermal Hydraulics *Yann Bartosiewicz -- Université Catholique de Louvain*	5		1	A:2	150
8	E038601	Safety of Nuclear Power Plants *Matthias Vanderhaegen -- Department of Electromechanical, Systems and Metal Engineering*	5		1	A:2	150

2 Elective Courses — 9 credits

Subscribe to 9 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E038800	Advanced Nuclear Reactor Physics and Technology *Hamid Aït Abderrahim -- Université Catholique de Louvain*	3		1	A:2	90
2	E038810	Advanced Nuclear Materials *Marc Scibetta -- University of Liège*	3		1	A:J	90
3	E038820	Advanced Radiation Protection/Radiation Ecology *Klaus Bacher -- Department of Human Structure and Repair*	3		1	A:2	90
4	E038830	Advanced Courses on the Nuclear Fuel Cycle	3		1	A:2	81
5	E038840	Nuclear and Radiological Risk Governance *Greet Maenhout -- Department of Electromechanical, Systems and Metal Engineering*	3		1	A:J	81
6	E038850	Advanced Course Elective Topic *Peter Baeten -- Vrije Universiteit Brussel*	3		1	A:J	88

3 Master's Dissertation — 20 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E091241	Master's Dissertation	20		1	A:J	600

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 cours name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Kroatian/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 in 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