

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Fire Safety Engineering

Language of instruction: English

Programme version 7

## 1 General Courses 87 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E001161 <b>Mathematic Models</b> <i>Karel Van Acoleyen -- Department of Electronics and Information Systems</i>	6	BRUG	1	A:1	180
2	E051540 <b>Explosions and Industrial Fire Safety</b> <i>Filip Verplaetsen -- Department of Structural Engineering and Building Materials</i>	6		1	A:1	180
3	E051430 <b>Fire Dynamics</b> <i>Tarek Beji -- Department of Structural Engineering and Building Materials</i>	6		1	B:1	180
4	E051640 <b>Data-Driven Management of Fire Incidents</b> <i>Steven Verstockt -- Department of Electronics and Information Systems</i>	3		1	A:1	90
5	E039161 <b>Thermodynamics, Heat and Mass Transfer</b> <i>Georgios Maragos -- Department of Structural Engineering and Building Materials</i>	6		1	A:1	180
6	E051570 <b>Material Behaviour at Ambient and Elevated Temperatures</b> <i>Bart Merci -- Department of Structural Engineering and Building Materials</i>	3		1	A:1	90
7	E051461 <b>Interaction between People and Fire</b> <i>Enrico Ronchi -- Department of Structural Engineering and Building Materials</i>	6		1	A:2	180
8	E051550 <b>Risk Management</b> <i>Ruben Van Coile -- Department of Structural Engineering and Building Materials</i>	6		1	A:2	180
9	E051590 <b>Compartmentation Strategies</b> <i>David Maeso Asua -- Department of Structural Engineering and Building Materials</i>	3		1	A:2	90
10	E051600 <b>Structural Fire Engineering</b> <i>Thomas Thienpont -- Department of Structural Engineering and Building Materials</i>	6		1	A:2	180
11	E051421 <b>Fluid Mechanics Applications in Fire</b> <i>Tom De Mulder -- Department of Civil Engineering</i>	6		1	A:2	180
12	E051482 <b>Active Fire Protection I: Detection and Suppression</b> <i>Christian Gryspeert -- Department of Structural Engineering and Building Materials</i>	6		2	A:1	180
13	E051494 <b>Active Fire Protection II: Smoke and Heat Control</b> <i>Bart Merci -- Department of Structural Engineering and Building Materials</i>	6		2	A:1	180
14	E051700 <b>CFD for Fire Safety Engineering</b> <i>Tarek Beji -- Department of Structural Engineering and Building Materials</i>	3		2	A:2	90
15	E051443 <b>Fire Safety and Legislation</b> <i>Jan De Saedeleer -- Department of Structural Engineering and Building Materials</i>	3		2	A:1	90
16	E051610 <b>Passive Fire Protection</b> <i>Emmanuel Annerel -- Department of Structural Engineering and Building Materials</i>	3		2	A:1	90
17	E061522 <b>Performance-Based Design</b> <i>José Torero -- The University of Edinburgh</i>	6		2	A:1	180
18	E051630 <b>Fire Safety Strategy Project</b> <i>David Maeso Asua -- Department of Structural Engineering and Building Materials</i>	3		2	A:2	90

## 2 Elective Courses 9 credits

Subscribe to 9 credit units from the Master of Science in Fire Safety Engineering. Subject to approval by the faculty.

Divided as follows (and taken into account the guidelines in the programme)

- 6 to 9 credit units from the Elective Courses module 2 (with submodules design en structures)
- no more than 3 credit units te selecteren from the Elective Courses module 3 (with submodules Elective Courses Fire Safety Engineering, Elective Social Courses, Elective Courses Ghent University).

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 Master's Dissertation	24		2	B:J	720

#### 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