Study Programme

Academic year 2025-2026

Faculty of Engineering and Architecture
Postgraduate Studies in Fire Safety Engineering

Language of instruction: English

Programme version 13

1 General Courses — 36 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E051430	Fire Dynamics	6			A:1[a]	180
		Tarek Beji -- Department of Structural Engineering and Building Materials					
2	E051512	Design for Structural Fire Resistance	3			(B:1)[d]	90
		Emmanuel Annerel -- Department of Structural Engineering and Building Materials					
3	E051450	Industrial Fire Protection and Explosions	3			A:2[a]	90
		Filip Verplaetsen -- Department of Structural Engineering and Building Materials					
4	E051500	Risk Management	3			A:2[a]	90
		Ruben Van Coile -- Department of Structural Engineering and Building Materials					
5	E051441	Fire Safety and Legislation	3			A:1[a]	90
		Jan De Saedeleer -- Department of Structural Engineering and Building Materials					
6	E051480	Active Fire Protection I: Detection and Suppression	3			(A:2)[d]	90
		Christian Gryspeert -- Department of Structural Engineering and Building Materials					
7	E051460	Interaction between People and Fire	3			(A:2)[d]	90
		Edwin Galea -- Department of Structural Engineering and Building Materials					
8	E051490	Active Fire Protection II: Smoke and Heat Control	3			(A:1)[d]	90
		Bart Merci -- Department of Structural Engineering and Building Materials					
9	E051610	Passive Fire Protection	3			(B:1)[d]	90
		Emmanuel Annerel -- Department of Structural Engineering and Building Materials					
10	E061520	Performance-Based Design	6			(A:2)[d]	180
		Patrick van Hees -- Department of Structural Engineering and Building Materials					

2 Elective Courses — 6 credits

Subscribe to 6 credit units from the following list. Subject to approval by the faculty.
According to the student's background and in consultation with the programme board.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E039160	Thermodynamics, Heat and Mass Transfer	6			A:1	180
		Georgios Maragkos -- Department of Structural Engineering and Building Materials					
2	E051511	Analysis of Structures	3			A:1	90
		Andrea Franchini -- Department of Structural Engineering and Building Materials					
3	E051570	Material Behaviour at Ambient and Elevated Temperatures	3			A:1	90
		Bart Merci -- Department of Structural Engineering and Building Materials					

3 Elective Courses — 3 credits

Subscribe to 3 credit units from the following list. Subject to approval by the faculty.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E051700	CFD for Fire Safety Engineering	3			A:2	90
		Tarek Beji -- Department of Structural Engineering and Building Materials					
2	E051560	FSE Based Firefighting	3			B:1	90
		Karel Lambert -- Department of Structural Engineering and Building Materials					
3	E051570	Material Behaviour at Ambient and Elevated Temperatures	3			A:1	90
		Bart Merci -- Department of Structural Engineering and Building Materials					

4 Project — 15 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091270 DISSERTATION	15	2		A:J	450

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