

# Study Programme

Academic year 2019-2020

## 1 General Courses

*Subscribe to 90 credit units from no less than 2 and no more than 3 modules from the following list. Subject to approval by the faculty. In accordance with the mobility scheme of the student.*

### 1.1 General Courses Ghent University

*Subscribe to no less than 30 and no more than 60 credit units from the following list. Subject to approval by the faculty.*

No.	Course name	Lecturer (dept.)	CRDT	Ref	MT1	MT2	Semester	Contact	Study
1	Explosions and Industrial Fire Safety	Filip Verplaetsen TW14	6		1	1		45	180
2	Fire Dynamics	Tarek Beji TW14	6		1	1		60	180
3	Research Seminar	Bart Merci TW14	3		1	1		30	90
4	Thermodynamics, Heat and Mass Transfer	Ivana Stankovic TW14	6		1	1		60	180
5	Material Behaviour at Ambient and Elevated Temperatures	Bart Merci TW14	3		1	1		15	90
6	Active Fire Protection I: Detection and Suppression	Christian Gryspeert TW14	6		2	1		60	180
7	Active Fire Protection II: Smoke and Heat Control	Bart Merci TW14	6		2	1		60	180
8	Computational Fluid Dynamics	Joris Degroote TW08	3		2			30	90
9	Fire Safety and Legislation	Jan De Saedeleer TW14	3		2	1		15	90
10	Passive Fire Protection		3		2			30	90
11	Performance-Based Design	Patrick van Hees TW14	6		2	1		30	180

#### 1.1.1 In-depth Structural Engineering Elective Courses Ghent University

*Subscribe to no less than 6 and no more than 9 credit units from the following list. Subject to approval by the faculty.*

No.	Course name	Lecturer (dept.)	CRDT	Ref	MT1	MT2	Semester	Contact	Study
1	Analysis of Structures	Ruben Van Coile TW14	3		1	1		30	90
2	Design for Structural Fire Resistance	Emmanuel Annerel TW14	3			1		30	90
3	Applications of Advanced Structural Fire Engineering	Ruben Van Coile TW14	3		2	1		30	90

#### 1.1.2 Broadening Elective Courses Ghent University

*Subscribe to no more than 3 credit units from the following list. Subject to approval by the faculty.*

No.	Course name	Lecturer (dept.)	CRDT	Ref	MT1	MT2	Semester	Contact	Study
1	Introduction to Entrepreneurship	Petra Andries EB23	3			1		15	90
2	Turbomachines	Joris Degroote TW08	6			1		60	180
3	Modelling of Turbulence and Combustion	Bart Merci TW14	3			1		15	90
4	Computational Fluid Dynamics	Joris Degroote TW08	3			1		30	90
5	FSE Based Firefighting	Karel Lambert TW14	3			1		22.5	90
6	Data-Driven Management of Fire Incidents	Steven Verstockt TW06	3			1		30	90

### 1.2 General Courses The University of Edinburgh

*Subscribe to no less than 30 and no more than 60 credit units from the following list. Subject to approval by the faculty.*

No.	Course name	Lecturer (dept.)	CRDT	Ref	MT1	MT2	Semester	Contact	Study
1	Fire Science and Fire Dynamics	Ricky Carvel EDINBU01	9		1	1		33	270

2	Fire Safety Engineering	Stephen Welch EDINBU01	6	1	1	22	180
3	Fire Safety, Engineering and Society	Graham Spinardi EDINBU01	9	1	1	33	270
4	Structural Mechanics	Yong Lu EDINBU03	6	1	1	22	180
5	Finite Element Analysis for Solids	Pankaj Pankaj EDINBU01	6	2	1	41	180
6	Fire Science Laboratory	Grunde Jomaas EDINBU01	9	2	1	66	270
7	Fire Investigation and Failure Analysis	Rory Hadden EDINBU01	9	2	1	33	270
8	Structural Design for Fire	Angus Law EDINBU01	6	2	1	22	180

### 1.3 General Courses Lund University

*Subscribe to 30 credit units from the following list. Subject to approval by the faculty.*

No.	Course name	Lecturer (dept.)	CRDT	Ref	MT1	MT2	Semester	Contact	Study
1	Risk Assessment	Håkan Frantzich LUND01	8		1	2		74	240
2	Advanced Fire Dynamics	Nils Johansson LUND01	9		1	2		50	270
3	Human Behaviour in Fire	Enrico Ronchi LUND01	8		1	2		48	240
4	Simulation of Fires in Enclosures	Jonathan Wahlqvist LUND01	5		1	2		25	150

## 2 Master's Dissertation

*Subscribe to 30 credit units from the following list. Subject to approval by the faculty.*

*The student can take the Master's Dissertation at one of the partner universities, in accordance with his/her mobility scheme.*

No.	Course name	Lecturer (dept.)	CRDT	Ref	MT1	MT2	Semester	Contact	Study
1	Master's Dissertation		30		2	2		75	900

#### Teaching languages

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 2020-2021	f: annually, from 2021-2022	i: annually, from 2022-2023
b: tri-annually	d: bi-annually, from 2020-2021	g: bi-annually, from 2021-2022	j: bi-annually, from 2022-2023
	e: tri-annually, from 2020-2021	h: tri-annually, from 2021-2022	k: tri-annually, from 2022-2023