

POSTGRADUATE STUDIES IN FIRE SAFETY ENGINEERING

60 ECTS CREDITS – PART-TIME – LANGUAGE: ENGLISH – DEGREE: POSTGRADUATE CERTIFICATE

COURSE CONTENT

The fire safety engineer understands and applies fire safety engineering (FSE). Fire safety engineering is the application of engineering principles, rules and expert judgement based on a scientific appreciation of the fire phenomena, of the effects of fire and of the reaction and behaviour of people, in order to:

- save life, protect property and preserve the environment and heritage;
- quantify the hazards and risk of fire and its effects;
- evaluate analytically the optimum protective and preventative measures necessary to limit, within prescribed levels, the consequences of fire.

These objectives will be achieved by a variety of means including activities such as:

- the assessment of the hazards and risks of fire and its effects;
- the mitigation of potential fire damage by proper design, construction, arrangement, and use of buildings, materials, structures, industrial processes, transportation systems and similar;
- determining the appropriate level of evaluation for the optimum preventive and protective measures necessary to limit the consequences of fire;
- the design, installation, maintenance and/or development of fire detection, fire suppression, fire control and fire related communication systems and equipment;
- the direction and control of appropriate equipment and manpower in the strategy and function of fire fighting and rescue operations;
- post-fire investigation and analysis, evaluation and feedback.

A fire engineer, by education, training and experience:

- understands the nature and characteristics of fire and the mechanisms of fire spread and the control of fire and the associated products of combustion;
- understands how fires originate, spread within and outside buildings/structures, and can be detected, controlled, and/or extinguished;
- is able to anticipate the behaviour of materials, structures, machines, apparatus, and processes as related to the protection of life, property and the environment from fire;
- has an understanding of the interactions and integration of fire safety systems and all other systems in buildings, industrial structures and similar facilities;
- is able to make use of all of the above and any other required knowledge to undertake the practice of fire engineering.

COURSE STRUCTURE

This programme can be completed as a two-year part-time programme, with 30 credits per year (in total four times twelve weeks). However, participants can decide to spread the completion of the programme over more than 2 years as well. The main courses take place on Tuesday or Thursday afternoons and on Fridays.

This allows professionals to participate. The programme consists of ten general courses, one elective course and a dissertation.

CAREER PERSPECTIVES

The postgraduate alumni can find a job as:

- fire safety consultants;
- fire prevention officers;
- fire brigade officers;
- building designers;
- building services engineers;
- architectural practitioners.

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TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

Rechtstreeks:

- Ma in de ingenieurswetenschappen: werktuigkunde-elektrotechniek
- Ma in de ingenieurswetenschappen: chemische technologie
- Ma in de ingenieurswetenschappen: materiaalkunde
- Ma in de ingenieurswetenschappen: toegepaste natuurkunde
- Ma in de ingenieurswetenschappen: elektrotechniek
- Ma in de ingenieurswetenschappen: bouwkunde
- Ma in de ingenieurswetenschappen: architectuur
- Ma of Textile Engineering
- Master of Science in Electromechanical Engineering
- Master of Science in Chemical Engineering
- Master of Science in Sustainable Materials Engineering
- Master of Science in Civil Engineering
- Master of Science in Engineering Physics
- Master of Science in Electrical Engineering

Na geschiktheidsonderzoek:

- andere Ma in de ingenieurswetenschappen / Ma in Engineering (op voorwaarde dat het diploma leidt tot de titel burgerlijk ingenieur of burgerlijk ingenieur-architect)
- Ma in de industriële wetenschappen (alle)
- Ma in de architectuur
- Ba of Engineering werktuigbouwkunde, specialisatie Fire Safety Engineering

TAAL

Je voldoet aan de taalvoorwaarden op basis van je Vlaams diploma.

PRACTICAL INFORMATION

Study programme

www.ugent.be/coursecatalogue

> by Faculty > Programme types > select your programme

Application deadline

Before the application can be started up, you need to be pre-academically selected by the programme coordinator.

Bart.Merci@ugent.be

Enrolling institution

Ghent University

Send an e-mail to request admission, including a detailed CV, with explicit specification of diploma and possibly experience in the domain of FSE, to the chairman of the Fire Safety Engineering Education Commission (opleidingscommissie Fire Safety Engineering) Bart.Merci@ugent.be

Tuition fee

More information is to be found on:

www.ugent.be/tuitionfee

ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

Bachelors or Masters in: architecture, civil engineering, electrical engineering, electromechanical engineering, chemical engineering, engineering physics, materials science, industrial engineering and operations research, urbanism and spatial planning.

Other degrees on the basis of a study of individual skills (e.g. fire safety consultants, fire prevention officers, fire brigade officers, building designers, building services engineers, architectural practitioners).

LANGUAGE

More information regarding the required knowledge of English: www.ugent.be/language/requirements

Contact

Universiteit Gent – Faculteit Ingenieurswetenschappen en Architectuur – Opleidingscommissie Fire Safety Engineering
Prof. Bart Merci
Campus Ufo, Sint-Pietersnieuwstraat 41, 9000 Gent
T 09 264 33 14 – bart.merci@ugent.be

Contact

Faculty of Engineering and Architecture
International Relations Officer – Degree students
Annelies Vermeir – annelies.vermeir@ugent.be
T +32 9 264 36 99 – internationalplateau.ea@ugent.be