

MASTER OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY



DURATION

1 year (full-time), 60 ECTS

APPLICATION DEADLINE

1 March (for non-EEA citizens)

1 June (for EEA citizens)

ACADEMIC CALENDAR

1st semester: end of October

→ January (exams in January)

2nd semester: half of February

→ July (exams in June)

www.kuleuven.be/academiccalendar

TUITION FEES

For the 2019-2020 academic year, the tuition fee is €922.3 for EEA students and €6000 for non EEA students. The tuition fees for future academic years can be higher as a result of indexation.

Please consult the website for the most recent information:

www.kuleuven.be/tuitionfees.



This master's programme brings students to the advanced level of knowledge and skills that are associated with scientific work in the broad sense, and more particularly to those areas of the engineering sciences that are related to civil engineering. The focus of the civil engineering major is on the construction of buildings and infrastructure. Design processes as well as aspects of technical execution are discussed extensively.

Structural design and **structural innovation** are the cornerstones of this programme. Civil engineering structures are designed with a specific purpose, in compliance with environmental, legal and structural rules. Through the choice of materials, numerical simulation and construction methods, the conceptual structural design is translated into structural shapes and dimensions. The engineering challenge is to arrive at an optimal structural design that meets the relevant criteria of structural strength, serviceability, energy efficiency, durability, etc. This process is driven by technological innovations: new materials, building information modelling (BIM), heating, ventilation, and air conditioning technologies (HVAC), etc.

Ghent Technology Campus

The campus focuses on a specific research areas, including Civil Engineering Technology, and is equipped with high-tech laboratories to conduct research in their respective fields. As a student at the Ghent Technology Campus, you arrive on a green campus only a few minutes away from the historical city centre. Quirky Ghent offers a fascinating cultural cocktail brimming with trendy, modern urban life. Ghent is a city where people enjoy life: a chilled-out place where anything goes and a city that feels human. Its friendly, welcoming people love the good life.

Contact and Route Planner to the Campus: www.iiv.kuleuven.be/english/ghent/contact

Career Perspectives

Degree holders are able to apply the acquired scientific knowledge independently in a broad social context, which opens up a wide spectrum of professional possibilities. As a master in Civil Engineering Technology, you can carry out a wide range of duties, including design, calculation, consultancy, sales, quality inspection and research. Depending on your interest, your engineering profile can range from technological expert to executive positions.

Application procedure

To be eligible for the Master of Science in Civil Engineering Technology, you must have obtained a bachelor's degree in Civil Engineering Technology, or a related field from a recognized academic institution. Applications are evaluated on an individual basis.

Holders of a foreign university bachelor degree or higher education bachelor degree (with a minimum of three years) may apply.

General admission procedure: www.kuleuven.be/application



Discover KU Leuven

Founded in 1425, KU Leuven has been a centre of learning for almost six centuries. Today, it is Belgium's highest-ranked university as well as one of the oldest and most renowned universities in Europe.

As a leading European research university and co-founder of the League of European Research Universities (LERU), KU Leuven offers a wide variety of programmes in English supported by high-quality interdisciplinary research. Within the field of science, engineering, and technology, KU Leuven offers five academic educational profiles organized in five faculties: Science, Engineering Science, Bioscience Engineering, Engineering Technology, and Architecture. Boasting an outstanding central location in the heart of Europe, KU Leuven offers a truly international experience, high-quality education, world-class research and cutting-edge innovation.



KU Leuven is a founding member of the League of European Research Universities

Credentials regarding prior education

For applicants from outside Belgium, comparability of the degree is not always easily established. Additional documentation is required for international applicants. The admission board can take a positive decision only if supporting information is provided:

- A complete list of course titles for which you have obtained a credit. Indicate the course size (in ECTS-credits) and the result you obtained, preferably according to the ECTS-scale; if a different scale is used, please provide a summary explanation on the meaning of the scores.
- For the courses that you deem most relevant as a preparation for the master, provide a short (about one half to one page) description according to the standard guidelines for an ECTS-study guide.
- Proof of proficiency in English. More information: www.kuleuven.be/english/admissions

The Admissions Board evaluates all applications and has the final say on the admissibility of the student, taking into account the relevant information.

Programme

You are required to take six compulsory courses and 18 ECTS elective courses – organized by the research groups with most expertise in that particular field. You will also complete a professional competence module (internship) and work on a scientific project – in one of the research groups or in an approved workplace – that will culminate in a master's thesis. For a detailed description of the courses and timetable, please contact Rik Saey (rik.saey@kuleuven.be) and Katrien Van Nimmen (katrien.vannimmen@kuleuven.be).

COURSE	SEM	ECTS
COMPULSORY COURSES		
Finite Element Method	1	3
Reinforced and Pre-stressed Concrete	1	3
Energy Efficient Buildings	1	3
Ethics in Business and Engineering	1	3
Project Construction	1	3
Academic Writing	1	3
Internship*	1+2	4
Master's Thesis	1+2	20
ELECTIVE COURSES (YOU SELECT 18 ECTS)		
Dynamics of Structures	2	6
Precast Concrete	2	6
Sustainable Materials Management**	2	6
Coastal and River Engineering**	2	6
Sustainable Design of Structures***	2	6
Acoustics	2	3
Building Information Modelling (BIM)	2	3
Dredging	2	3
* 4 weeks to be completed by the end of August		
** organised at the Bruges Campus		
*** organised at the De Nayer Campus		

Contact

www.iiv.kuleuven.be/english/civil-engineering
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