



Faculty of Engineering Science KU Leuven - Belgium

Dear prospective student,

The Faculty of Engineering Science started in 1864 as Ecoles Spéciales des Arts et Manufactures du Génie Civil et des Mines. Today it is a multidisciplinary school forming **academic engineers** with a sound scientific background, an advanced technical knowledge, a stimulated creativity, a **concept oriented approach** and with an open view on **societal issues**.

Intensive research is the heart beat for the education programme, as demonstrated by the more than 140 defended PhD theses per year and the large number of research projects.

The faculty is linked to seven research departments. It organises two bachelor programmes and 30 master programmes (24 initial masters and 6 advanced masters). 32% of the master's students come from all over the world.

There is also a lively interaction with national and international universities, research institutes and industrial partners.

My team and I look forward to welcoming you next year!

prof. dr. ir. Michiel Steyaert
Dean
Faculty of Engineering Science

prof. dr. ir. Jos Vander Sloten
Vice Dean for International Affairs
Faculty of Engineering Science





Good reasons to study at the Faculty of Engineering Science in Leuven

- KU Leuven is a top university, located near Brussels in the heart of Europe.
 - In rankings from all over the world, the Faculty of Engineering Science (KU Leuven) features among the best technical universities (N°1 in Belgium, top 5 continental European universities, N°28 worldwide).
 - Reuters ranks KU Leuven as Europe's most innovative university in its ranking of Europe's top 100 innovative universities.
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- In total there are ± 5.150 students at the Faculty of Engineering Science, of which ± 1.000 PhD researchers.
 - With over a hundred different nationalities the student population is a very international community: 32% of the students come from all over the world.
 - Wide variety in English programmes (12 initial masters of which 1 EMM and 1 KIC master, 6 advanced masters, 2 postgraduate programmes).
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- The research at the Research Departments and Research Centres has an outstanding reputation internationally, demonstrated by the large number of projects and publications.
 - 142 graduating PhD researchers a year (2016).
 - On average every year three new spin-off companies emerge from research conducted at the faculty, settling down in the Leuven area and becoming world players in their respective commercial market.
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- Member of the CESAER and CLUSTER network.
 - Research and education at the faculty benefits from the close interaction with the numerous spin-offs: amongst many imec, Siemens Industry Software, Materialise, LayerWise, ...

International Office/Student services

KU Leuven has a long tradition of welcoming international students, researchers and guest professors from all around the world.

www.kuleuven.be/international

www.kuleuven.be/english/studentservices/studentservicesleuven

Buddy programme

When arriving in Leuven, it is important to learn how things are going here. Therefore, the university set up a special programme that - if you are interested - will assign you a personal buddy. This buddy usually is a Flemish student, who can show you the most important places in Leuven and answer your practical questions.

www.kuleuven.be/english/studentservices/orientationdays/buddy

VTK

VTK (Vlaamse Technische Kring) is the students' union of the Faculty of Engineering Science. VTK will make sure you enjoy your stay, by organising various activities (parties, excursions,...). Furthermore, they will provide you with the necessary course material and educational support.

www.vtk.be/en/

Academic calendar

- Autumn term: September – February
- Spring term: February – July
- Retake period: half August – half September

Housing

Leuven offers a wide range of housing options at reasonable prices. Most students stay in individual rooms with shared facilities in houses on the private real estate market. Assistance with all housing issues is provided by the university housing office.

Housing in larger university halls or dorms is limited. Only international students holding specific scholarships are eligible for rooms in these subsidised facilities.

www.kuleuven.be/accomodation

Pangaea

Pangaea is the label for all welcome and integration activities by Student Services. Pangaea aims to create a home-away-from-home feeling for international students in Leuven and to help them with their social integration in the Leuven student community.

In the spirit of hospitality and intercultural understanding, Pangaea stimulates interaction between students and offers a platform for proposals and initiatives from students and other partners.

<https://www.kuleuven.be/english/studentservices/pangaea>

ATHENS

Twice a year our master students have the opportunity to go for one week to immerse in the field of excellence at one of the universities in the ATHENS network.

www.eng.kuleuven.be/english/education/athens



International Exchange Programmes

Each academic year the Faculty of Engineering Science of KU Leuven welcomes more than 200 master students from all over the world. These exchange students come for one semester or a full year to Leuven as part of their studies at their home university. They can compose a programme of courses taught in English, offered by one of the master's programmes at the Faculty of Engineering Science.

For a complete list of courses and more information on the application procedure, please visit: <http://eng.kuleuven.be/english/students/exchangestudents>.

If there is a research connection between your home university and the Faculty of Engineering Science, you can also choose to work on your master's thesis. Within Europe the Faculty of Engineering Science has a bilateral agreement with close to a hundred universities within the framework of Erasmus+. This framework ensures you of a scholarship that covers a big part of the costs for travel and living.

But also outside of Europe the Faculty of Engineering Science has agreements with several universities.

Prerequisites:

- Your university has signed a bilateral agreement with the Faculty of Engineering Science of KU Leuven.
- You have been selected by your home university for an exchange to KU Leuven.
- During your stay in Leuven you will be in your 4th or 5th year of study. This means that before coming to Leuven, you have finished at least 3 years of university.
- Most of our courses are taught in English, we strongly advise a proficiency in English of B2 or TOEFL ≥ 92 . If needed we recommend a language course.

Application deadlines:

- 30th April for studies during 1st semester or the full academic year
- 1st October for studies starting 2nd semester

Contact: international@eng.kuleuven.be



THE FIGURES

5.191 students

2 Bachelor's programmes

24 Initial Master's programmes

14 of which taught in English

8 advanced Master's programmes

1 EMM

1 EIT-KIC Master

1.682 international students -
over **100** nationalities

142 PhDs/year

22 spin-offs started
up during the past
3 years

150 patents/year

7 research
departements

Times
Higher Education
Ranking: 34

Studying Science & Technology at KU Leuven: Five Faculties - Five Educational Profiles

The Faculty of Engineering Science (incl. Engineering Architecture):

offers study programmes, based on fundamental sciences: for engineers this is mainly physics, mathematics followed by engineering courses, for Engineering Architecture mainly physics, mathematics and architectural design studios followed by engineering and architecture courses. These study programmes train students to design and optimise concepts for new products, processes, systems or services. These programmes pay considerable attention to conceptual aspects and methodological approaches and focus on the medium-term horizon.

Master's programmes at the Faculty of Engineering Science:

- **Architecture**
- **Biomedical Engineering:** *engineering for health*
- **Chemical Engineering:** *process intensification, bioreactor engineering, product design*
- **Civil Engineering**
- **Computer Science:** *secure software, artificial intelligence*
- **Electrical Engineering:** *circuits of tomorrow, for wearable and implantable devices to monitor your health. cryptography: design and hardware/software implementations from the cloud to the internet of things*
- **Energy**
- **Logistics and Traffic**
- **Materials Engineering:** *metals and ceramics, polymer and composites, biomaterials, nanomaterials*
- **Mathematical Engineering**
- **Mechanical Engineering**
- **Nanoscience, Nanotechnology and Nanoengineering**

The Faculty of Architecture:

offers programmes in Architecture, Interior Architecture and Urban Planning & Spatial Design in Ghent and Brussels. Education is based on the century-old tradition of architectural education at the Sint-Lucas School of Architecture. The programme's uniqueness stems from the integration and interaction of design studios and technical, theoretical and explorative artistic courses and research.

The Faculty of Bioscience Engineering:

offers study programmes that are based on fundamental sciences: biology and chemistry followed by bioscience engineering courses. The study programmes train students to design and optimise concepts for new products, processes, systems or services. These study programmes pay considerable attention to both conceptual aspects and methodological approaches. The study programmes focus on the medium-term horizon.

The Faculty of Engineering Technology:

trains students to become experts in developing, applying, implementing and improving products, processes and systems in specific applications. The programme, taught at the seven campuses of the Faculty of Engineering Technology, is oriented towards practical applications and immediate usability in the professional field.

The Faculty of Sciences:

offers programmes oriented towards generating new knowledge and insights by exploring uncharted territory in domains ranging from mathematics and physics over biology and chemistry to earth sciences. KU Leuven science graduates always aim at the deepest level of understanding of their subject. With this mindset they are able to discover, elucidate and explain phenomena in the natural sciences, on the basis of observation and experimentation or by developing models or (predictive) theories, strongly rooted in mathematical principles.



Contacts

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www.eng.kuleuven.be/english

Update: 03/2017