

- International Business
- Industrial Engineering & Management
- Information & Communication Technology (ICT)
- Mechatronics
- Electrical and Electronic Engineering
- Mechanical Engineering

CAMPUS EINDHOVEN - THE NETHERLANDS

2018 - 2019

**THINK
BIGGER**



**UNIVERSITY OF
APPLIED SCIENCES**



Lily Cao, Student International Business from China.

STUDY ABROAD: MY FIRST EXPERIENCES FROM MY OWN EXPERIENCE

When I encountered the bottleneck of my career life two years ago, I realized that I need to address shortcomings in areas like business strategy and leadership.

I started with Fontys International Business because I knew I wanted to go into business management, and I wanted a broader understanding of how to lead companies. For me, Fontys is the clear choice for advancing my career.

Our Eindhoven campus greatly enriches the educational experience of international business students by providing quality studying facilities, personal coaching and support, access to online and offline resources, and countless opportunities beyond the classroom. Such as the HighTechXL Market Research Hackathon gave me a chance to work with a high-tech startup to create a full market research report in 48 hours. This experience gave me chance to step out of the classroom, get down to real business and test my skills.

In addition to my studies, I have a passion for entrepreneurship and develop myself in leadership skills while expanding my professional network. I also got the chance to join the Talent Academy. This program offers me a chance to work and practice my knowledge of Supply Chain Management in Philips Healthcare. I also initiated a start-up business in which I can carry out my entrepreneur dream into reality.

I am now experiencing the best 2 years of my lives while being in Eindhoven exposing myself to a great environment which allow me to expand my leadership capability.

If you have any questions about studying at Fontys University of Applied Sciences or living in the Netherlands then feel free to contact Lily directly through c.cao@student.fontys.nl

General information about Fontys Campus Eindhoven

Fontys Eindhoven Campus is located in the South-East of the Netherlands, the so-called "Brainport region" which is an international centre of science and technology and a splendid environment to study and start your career as a professional. This is the place where the high-tech companies design and improve state of the art industrial and consumer products for customers all over the world. In our 4-years Bachelor programmes, the first two years consist of theoretical and practical subjects (including projects) in the study field of your choice. In the third year you will have an internship semester in an (inter)national company and in the other semester you will participate in a minor programme of your choice. In the fourth year you will have one semester at the University and you finalize your Bachelor degree with a graduation project in an (inter)national company.

International Business (IB)

Programme in brief

International Business (IB) is a 4-years bachelor programme and is a broad business study programme covering all facets of a company: from general management to human resources, marketing and finance. The programme aims at preparing you for a management position within an international business environment. Examples of projects you will work on are; writing a business plan for a company, managing the acquisition of a foreign company or advising organisations on which entry strategies to use. Besides (management) skills, you will develop other professional skills such as dealing with cultural differences, learning how to be a leader, how to cooperate and communicate with international people but also how to plan and organise within a company. As a future student of IB you should be open to challenges and have a critical mind. Both being able to work independently and willingness to work in multicultural teams are preconditions for a successful study career.

First year students are also eligible for the Honours Programme when they have distinctive study results. The Honours Programme serves those talented students who demonstrate extra motivation with every opportunity to get the very most out of their study programme. The focus of IB in Eindhoven is more technologic because of the Brainport region. When you are more interested in logistic then IB in Venlo might be a great option.

Some of the subjects you will study in the first year:

- Macro environment courses: e.g. Economics and International Business
- Law and Ethics
- Finance and Accounting
- Marketing

Professional career after graduation:

The programme offers you a wide range of professional perspectives. Think of positions in the field of:

- International Key Account manager
- Employee in an international marketing or export department
- Operations manager
- international product/project manager

For the complete programme please visit our website: fontys.edu/IBMS.

Industrial Engineering & Management

Programme in brief

Industrial Engineering & Management is a 4-years BSc bachelor programme teaching you a broad variety of topics ranging from technology to economics, strategy and human resources. Goal is to prepare you for a management position in a 'technology' company. This may be a company that develops and manufactures high-tech products. But also companies with a mere focus on manufacturing or logistics are belonging to the target. The Brainport Eindhoven region offers a splendid environment for studying Industrial Engineering & Management because hundreds of companies within 50 kilometers of the university are falling in this category. This is important because your study, for a large part, will be with and within some of these companies. Together with your fellow students, teachers and company coaches you will discover what you need to know to be a successful industrial company manager.

You start building a relevant CV from the beginning of your study and by the time you are getting your degree you will have the needed knowledge, skills and experience to immediately take up significant responsibility within the company of your choice. In concrete, the education focusses on problem solving in the areas of development, manufacturing and logistics such as lowering costs, improving quality, delivering goods faster and increasing reliability.

Some of the subjects taught in the first year:

- Business economics
- Production technology
- Quality
- English
- Change & IT
- Management & organization
- Statistics
- Sociology and psychology
- Research Skills

For the complete programme please visit our website: fontys.edu/IEM.

Professional career after graduation:

IEM students are trained to become all-round experts in business engineering. With the knowledge and skills obtained at Fontys University students are likely to find work as managers or consultants in large production companies, but our graduates may also be found in the service industry, or working for local authorities. Alternatively, there is the possibility to do a master or MBA.

Information & Communication Technology

Programme in brief

ICT refers to technologies that are related with the internet, wireless networks, cell phones but also with latest software developments. The Fontys ICT bachelor study offers you three study programmes: ICT & Software Engineering, ICT & Business and ICT & Technology. These 4-years English taught international study programmes will lead to the international Bachelor of Science (BSc) degree. With the knowledge and skills learned students can work as high-level engineers in the wide ICT sector. The first semester is identical for all three bachelor programmes. This gives you an opportunity to find out what programme suits you best. From the second semester you can choose to continue either in ICT & Software Engineering, ICT & Business or ICT & Technology with specialisations in Cyber Security, Game Design & Technology, Management & Security, Open Innovation, Smart Mobile, Applied Data Sciences, Digital Publishing and many more. When you are interested to study Informatics (Software engineering or Business Informatics) with a focus on Logistics then Fontys Campus Venlo is a great option.

In the first semester you will do the following basic subjects:

- Programming in C#
- Databases
- Fundamentals in ICT and Computer Systems
- Mathematics

ICT & Software engineering:

This programme is all about designing, developing and maintaining software for all kind of applications. You will learn to:

- translate the requirements from clients into a software design
- implement the software design with a programming language (e.g. in C#)

Subjects you will study are e.g.: Object Oriented Development; Operating Systems; Client Server Applications; System Development; Networking; Web-applications; Mobile Programming.

ICT & Business

Business IT-specialists know how to apply ICT in organizations to achieve their objectives. A business IT-specialist knows how to analyze organizations and business processes but is also able to give advice on solutions and transfer these solutions into design. You understand the technology involved so you can discuss solving difficult IT-problems but you also speak the language of the manager. Subjects you will study are e.g.: System Development; Web-applications; Business Economics; E-Business; Supply Chain Management; IT-Service Management.

ICT & Technology

Nowadays you will find software in almost every device, from a television to a heart-defibrillator and from a watch to an elevator. Within our bachelor program ICT & Technology we focus on writing software for all these devices. We will train you to become an expert in software development, especially in the so-called embedded software. Subjects you will study are e.g.: Object Oriented Development; Embedded Software; Web-applications; Sensors/ Actuators; C/C++; Operating Systems; Client Server Applications; Mobile Programming.

Professional career after graduation:

With your knowledge and skills learned at Fontys you will be able to find a job very easily in a technology-oriented company in the Netherlands or abroad. The ICT world is developing rapidly and new devices and systems are constantly being created to provide faster and more efficient methods for ICT. The available jobs in ICT are very different and depend on the chosen specializations.

For the complete programme please visit our website: fontys.edu/technologyandbusiness.

Mechatronics

Programme in brief

This 4-years English taught BSc bachelor degree programme Mechatronics is a combination of electrical and electronic engineering, mechanical engineering, control systems and software. In this programme, you will be a designer and a creator. Mechatronics is about making simpler, more economical and reliable systems that can do something independently. From design to making a robot: the bachelor programme Mechatronics has a focus on robotics and control technology. Mechatronics engineers design or select sensors and actuators, develop control algorithms and use or develop advanced functional materials for the design of mechanical systems such as welding robots in a production line, surgical robots but also cruise control systems in cars and many more.

Some of the subjects you will study in the first year:

- Electrical networks
- Digital design
- Mathematics
- General engineering skills
- Mechanics
- C#-programming
- Integrated (Mechatronic) design techniques

Professional career after graduation:

Future jobs for Mechatronics graduates are diverse and it is anticipated that mechatronics engineers will have excellent career opportunities. Today in the Netherlands and abroad the demand from industry for Mechatronics engineers exceeds the supply. Think of a job in research and development, industrial automation or service and maintenance.

Examples of possible professions are:

- System Architect
- Designer of machines or electronic products like mobile phones,robotics devices for people with disabilities
- Designer for medical equipment (X-ray, laboratory equipment)

For the complete programme please visit our website: fontys.edu/mechatronics.

Electrical and Electronic Engineering

Programme in brief

Electrical & Electronic Engineering (EEE) is a university bachelor programme that leads to the international Bachelor of Science (BSc) degree. Electronics engineers design and develop the consumer goods and also systems used by machines and equipment in industry, from mobile communications and computing to aerospace. The curriculum of the EEE bachelor programme is offered in the context of 4 themes: Sound Engineering, Care & Cure, Smart & Sustainable and Connected World. With the knowledge and skills gained in this programme you can work as high-level Electronic engineers especially in the field of Electronic design and development.

Subjects you will study in the first year:

- Programming in C# and C
- Analogue and digital design
- System Engineering
- Embedded systems
- Mathematics
- Generic Engineering skills
- Project e.g. Bedside monitor

Professional career after graduation:

Your future career opportunities are excellent. You may think of careers in the (car) industry in companies like Philips and ASML but also engineering jobs in hospitals, the air force and army, lighting and audio companies and even the theater world.

Examples of possible professions are:

- Electronic designer
- Researcher in Electronics
- Product engineer

For the complete programme please visit our website: fontys.edu/technologyandbusiness.

Hours that you will spend weekly

| | |
|--------------------|------|
| Total hours: | ± 40 |
| Theory classes: | 30% |
| Practical classes: | 30% |
| Self-study: | 40% |

Tuition fees

Tuition fees for students starting Sept. 2017

| | |
|---------|--------|
| EU: | € 2006 |
| Non-EU: | € 6500 |

Mind there will be an index of ± 7% on fees for students starting Sept. 2018.

Study Costs

| | |
|---------------------------------------|-------------------|
| All-in insurance: | € 442 (annually) |
| Housing: | € 5100 (annually) |
| Visa & residence permit (for non-EU): | € 307 |



FONTYS CAMPUS EINDHOVEN:

‘THE BEST PLACE
TO START
YOUR CAREER.’



Mechanical Engineering

Programme in brief

The 4-years BSc bachelor programme in Mechanical Engineering has a strong focus on the design and construction of machines and devices. From oil rigs to the plastics industry, from pythons in amusement parks to devices and machines, everywhere you will meet mechanical engineers. A designer who also knows how processes work. Mechanical engineers focus on designing, making and placing of equipment, installations and machinery. They make things “better”. Do you want to make for example a machine more energy efficient? Or ensure that a production process produces less waste? With mechanical Engineering you are going to make it!

Subjects you will study in the first year:

- Construction and mechanics
- Energy & process
- Control and modelling
- CAD/CAM with 3D equipment
- Mathematics
- Measurement
- Materials & manufacturing
- Integrated design methods

Professional career after graduation:

Mechanical Engineering graduates can work in many sectors. Often you will work in the field of design and engineering or research and development. Also, production and automation of energy and environmental technology are interesting fields for you. Think of the following positions:

- Mechanical designer
- Maintenance Engineer
- Planner
- Researcher
- Constructor
- Product Engineer

For the complete programme please visit our website: fontys.edu/technologyandbusiness.

What can you expect from us?

The Fontys Campus Eindhoven programmes have a focus on higher professional university training based on a strong theoretical and practical foundation. Teaching is done by using different methods: theoretical lectures and practical workshops, (laboratory) assignments but also doing applied science projects and self-study activities. For all programmes you can have an influence on your own content and planning of your study. A study counsellor will help you in making the right decisions and a personal tutor will mentor you throughout your study. Students who have performed very well during the first year of study will be offered the opportunity to take part in EXCELLENCE-programmes. These extra-curricular activities are available for all ICT programmes, EEE and IB.

Fontys within top 5 in Dutch university of applied sciences rankings

The “Keuzegids” (Dutch Study selection guide) is an independent guide and ranking that aims at critically assessing and comparing the quality of Dutch universities. In general, Keuzegids is considered the most prestigious ranking in the Netherlands. With a score of 62.5 Fontys ranks among the best four large universities of applied sciences in the Netherlands. Additionally, all study programmes itself were assessed. Here, Fontys managed to score above-average in the study fields of Engineering, ICT, Logistics, Business Administration and Management.

Admission requirements

On our website you can read what the admission requirements are. When you have specific questions about your secondary school education you can contact the study programme that you want to follow via the website.

Scholarships

Fontys Campus Eindhoven bachelor programmes offer (partial) scholarships (for non-EU students) and loan options (for EU students). For more information and conditions you can contact the study programme that you want to follow via the website.

Application procedure

Application needs to be done in: [Studielink.nl](https://studielink.nl) For more information you can contact the study programme that you want to follow via the website.



Fontys Technology and Business bachelors

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10 reasons to study at Fontys Campus Eindhoven

1. Perfect start up for your career

Fontys is the only University of Applied Sciences that offers English taught bachelor programmes in the Brainport region. There is a great choice of (technology) companies for doing internships and sufficient vacancies to start up your career in an international environment.

2. Prepares you for real life situations

At Fontys, teaching is geared towards developments in society and in the labour market. The Bachelor programmes are highly practically orientated with challenging projects that tackle real world problems. During your programme, you will complete two internships, in which you must prove that you can adequately analyse, tackle and solve problems. There is a good combination between theory and practical work. All our bachelor programmes offer students flexibility in composing their own study programs.

3. Smart Region

The South-East of the Netherlands is internationally known as Brainport Region; a top European centre of science and technology. More information about Brainport Region is available on www.intelligentcommunity.org

4. Great accessibility

Eindhoven is the fifth largest city in The Netherlands. There are good transportation facilities by car, train and plane.

5. Live in an attractive city

Eindhoven has pleasant, friendly streets, beautiful parks, a lively and attractive centre and cultural and sporting activities of international standing.

6. Modern and up to date learning environment

Fontys Campus Eindhoven has well equipped laboratories offering students the best opportunities to do their practical assignments. The Campus is also equipped with computer rooms, library and a student restaurant. Wireless internet is available, enabling you to bring your laptop and work, study, search for information and check your email wherever you want.

7. Purple introduction week

Your student life could not possibly start without experiencing the vibrant Introduction Week, known as 'Purple'. You will have the opportunity to become acquainted with your fellow students, your Course Department, the city and the student associations.

8. Student Associations

The Fontys Students' Associations (INNOVUM, LEAN, PROXY and FOMAS) give international students at Fontys important first-hand information about the dynamic organisation that Fontys is. The goal of the students' associations is ensuring the social well-being and rights of the international students.

9. Lots of sports facilities

Fontys Eindhoven offers its students a lot of sports facilities like swimming, fitness, squash etc. You can become a member at the Eindhoven University of Technology (TU/e) Sports Campus for a student friendly fee.

10. We can find you a home

Fontys can help you to find a place to live. Most of the international students live in a house together with other students, a so-called 'student house'. You rent your own room in the student house. Usually, you share a kitchen and a bathroom with other students.

More information

Come and visit us

We offer you the opportunity to meet us for a personal consultation or Open Days. These days are a great opportunity to meet lecturers, explore the city, attend course presentations, explore our beautiful campus and facilities, and maybe even meet your future classmates! When you want to visit us for an Open Day Fontys will take care of free accommodation for 2 nights in the 3BE youth hostel in the Centre of Eindhoven.

Open Days are scheduled on Saturday, 11 November 2017 and Sunday, 21 January 2018.

It is also possible to be a "student for a day" where you will have the chance to get a feeling of what it means to study at Fontys. Feel free to contact us if you have any questions.