# Mechatronics (English)

## Programme in brief

In the oncoming years more and more devices will be produced that will help us to make heavy work light or even take work out off our hands (robotics). More and more  mechatronics devices will determine our everyday lives. Household appliances are becoming intelligent, electronics improves better and easier use. All of these devices would either not exist without mechatronics or would be much more expensive. Mechatronics will also play a significant role in the development of equipment to enable distance health care for older people (health & quality for life).

## Content of the programme

Mechatronics is a combination of electrical engineering, mechanical engineering and technical computer science. In this course, you're a thinker and a doer. You consider how to make devices safer or more user-friendly. And you design them! Think of an automated car wash, a production robot, or in healthcare: a wheelchair or a robot arm. We teach you the theory and practice and we will train you to become a specialist in systematic design of for example control techniques of robotic products and machines.

## What to expect from us

Within the programme Mechatronics the distance between teachers and students is quite close. You will get classes given by teachers who have worked in the field of mechatronics. They know what is going on in the rapidly changing world of mechatronics. Right from the start of your bachelor study a personal study counsellor will help you in making the right study decisions. You will practice your technical skills and conduct challenging projects that lead to innovative products

## What do we expect from you

You have a passion for technology and you're curious in solving all kind of (technical) problems. This means for you that besides the clever and creative application of mathematics/physics,you must be able to switch between theory and practice very quickly. Successful studying also requires a lot of perseverance. It goes without saying that your communication skills and level of English are very good. At secondary school your grades for mathematics and physics need to be very good as well. Per week you need to spend around 40-45 hours on study activities.

**Intake**
**September**

**Degree**
**Bachelor**

**Education form**
**Full-time**

**Places**
**Eindhoven**

**Language of study**
**English**

This bachelor programme leads to the international Bachelor of Science degree (BSc).

## Contact

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## The Fontys way of studying

The Fontys teaching style is interactive and student-centred. It focuses on teamwork, which makes it easy to meet other international and Dutch students. Studying in Holland means developing an open mind and increasing your international orientation. A large part of all study programmes is dedicated to writing papers and working in groups to analyse and solve specific problems. You will also get a chance to get practical work experience through internships or do experiments in laboratories, depending on the field of study.

Teamwork: Holland has received international praise for its teaching style, which centres on students working together as a team and on self-study and self-discipline. The teacher will act as a facilitator and guide in the learning process.

## Why study at Fontys?

All Fontys Technology and Business (FTB) bachelor programmes are officially accredited and quality-based bachelor programmes. Being a student in one of these programmes means that you live and study in one of the most promising, fast developing high tech regions of Europe: *Brainport Region*. This region has a unique environment in the Netherlands and is a breeding ground for innovation and home to world-class businesses, universities and research institutes.

Are you fascinated by technology and innovation or business? Are you looking for an outstanding study or career opportunity in the Netherlands? If so, you should consider Brainport Region in the Southeast of the Netherlands. It could be one of the smartest moves you make!

## Finance your study

The annual tuition fees for an FTB bachelor degree programme will be €1.042 for EU students (2019/2020). The tuition fee costs for non-EU students are generally higher. The tuition fees for non-EU students are €9.830 (2019/2020). Fontys FTB offers scholarships for non-EU students and loans for EU students.

The average living expenses per month for an international student who lives and studies in Holland are between €700 and €900 per month. These living expenses cover rent, insurance, food, public transportation, books, clothing and other general costs.

## Admission requirements

As a prospective bachelor student you must have a diploma of higher secondary education that is equivalent to Dutch standards. Some equivalent international diplomas are the senior high school diploma GCE, British GCE-A-levels or the French Baccalaureat. Nevertheless, since every country has its own school system we will check your diploma once we have received it from you. In this way we can compare it to the required Dutch standards. The required English level must be equal to IELTS 6.0, TOEFL 550/80 or other equivalent tests. Applicants whose mother tongue is English will be exempted from the English requirement.

## Open days

We organise several Open Days in each academic year. On these days you can visit the campus and see the facilities, meet lecturers and students and attend presentations about the study programmes.

## How to apply

Apply on:

fontys.edu/technologyandbusiness

choose the study programme of your choice.

## Accommodation

It is not always easy for international students to find accommodation in Holland by themselves. Therefore, Fontys FTB  offers a service to provide students with assistance in securing suitable accommodation (i.e. a student room) for the first period of their studies at Fontys. Although Fontys does not have its own campus dorms, it has established cooperation with a number of different accommodations or housing agencies and landlords