



MECHATRONICS

INTAKE

> **SEPTEMBER**

DEGREE

> **BACHELOR OF SCIENCE**

LENGTH OF STUDY

> **4 YEARS (8 Semester)**

LANGUAGE OF STUDY

> **ENGLISH**

ADMISSION REQUIREMENTS

> **FACH- & ABITUR
NO NC**

Programme In Brief

We train you to become a specialist in the systematic design of, control techniques of robot-controlled products and machines, together with insights of multiple facets of engineering. Mechatronics has become indispensable in the manufacturing industry, the medical world, the agricultural sector, the logistics world and in the field of safety. As a mechatronic engineer, you help build a more liveable future.

“THE TEACHERS ARE YOUR COACHES AND SKILLS TRAINER.”

Content And Structure of The Programme

Designing mechatronic systems requires a broad knowledge of the machine (the structure), being able to make the machine move (the motors), determining the state of the machine and environment (the sensors) and, of course, the intelligence to determine when the machine should take action (the controls). Over four years, you will be trained in three subject areas (electrical engineering, mechanical engineering and computer science) and you will learn methodologies to combine these disciplines to design the best possible mechatronic system. It does not stop at theory: practice is very important and forms a very large part of the study. After your studies you can, for example, work as a system integrator, research engineer, robotics engineer, mechatronic designer or as service engineer.

What Can You Expect from Fontys

You will be taught by a small group of instructors who have extensive work experience in the field and who can talk to you at any time of the day. They know what is going on in the rapidly developing world of mechatronics. You practice your technical skills and carry out challenging projects that lead to innovative products. In addition, from the start of your studies you will have a personal study coach who will guide you throughout your whole study.

What do we expect from you?

You have a passion for engineering and technics and further more are curious about solving problems. You combine theory and practice in a smart and creative way and can respond quickly to changes. In addition, we expect you to have perseverance to successfully complete your studies and are able to do independent research with few guidance.



> **FOR SOCIETY**

Why study Mechatronic Systems Engineering at Fontys Venlo?

- Lots of attention to personal development
- Small-scale training with informal atmosphere
- You have access to excellent workshop facilities; to realize prototypes and test your designs
- Practice-oriented: you learn by discovering and doing through various projects for industry
- Less written exams, more project based assessment
- Current developments, such as sustainability, play an important role in the lessons
- One year of integrated work-experience (two internships)
- Excellent job opportunities!

Study Phases*

Foundation Year	1 st Semester	General Introduction to Mechatronic Systems Engineering
	2 nd Semester	
Main Phase	3 rd Semester	In-depth study Mechatronic Systems Engineering
	4 th Semester	
	5 th Semester	Internship (approx. 6 months)
	6 th Semester	Minor (e.g. Study Abroad)
Graduation Phase	7 th Semester	In-depth study Mechatronic Systems Engineering
	8 th Semester	Bachelor Internship (approx. 6 months) + Bachelor Thesis

*A current and detailed overview is available at: fontysvenlo.nl.

Tuition Fees

Tuition fees 2024-2025 for EU/EEA Citizens *

1 st Year	1.265 / Year
2 nd -4 th Year	2.530 / Year

* For Non-EU/EEA Citizens different tuition fees apply. To identify which tuition fee applies to you please check: fontys.edu/tuitionfeeindicator.

How much time do you need for your studies per week?

Generally about 14 contact hours per week are planned for theory. The remaining contact hours (26 hours) are spent on projects, personal development and self-study.

How is the study load divided?

Self-study 25%

Practice 40%

Theory 35%

Professional Prospects

The multi-faceted degree programme prepares you for careers such as mechatronics, mechanical engineering, computer science or technical physics.



> FOR SOCIETY

> Open Days

Saturday, 04. November 2023
10:00 - 14:00

Sunday, 21. January 2024
11:00 - 15:00

Saturday, 16. March 2024
10:00 - 14:00

Registration form at:
fontysvenlo.nl/events

> Student For A Day

Don't miss the opportunity and become a student for a day! You have the possibility to accompany one of our students to lectures and project work in order to get a deep insight into the campus, its learning atmosphere and student life. Possible dates and registration forms can be found at: fontysvenlo.nl/events

> Enrollment

In the Netherlands, you use the website studielink.nl to arrange your enrollment.

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