Hydrogen in the Energy Transition

Do you want to contribute to the switch from fossil fuels to renewable energy? Are you an engineer who can think creatively? Who wants to take on a challenge? And who can work in multiple disciplines? Then the minor Hydrogen in the Energy Transition might be something for you!

In this programme, you will work in a multidisciplinary team on a topical issue in the market, in which hydrogen will be used as an energy supply. Think for example of making an industrial plant completely off-grid or expanding a hydrogen production facility with a link to hydrogen storage and distribution systems. Hydrogen will play an important role in our energy systems in industry, the built environment and mobility. There are plenty of exciting projects that you can contribute to!

In this programme, we teach with the principle that you only really learn when you have the opportunity to apply what you have learned. Therefore students are able to directly apply their knowledge by working in projects. Which knowledge you will acquire depends on the project. However, there is a training course for all the teams:

- An overarching training in the safe design of hydrogen plants;

- A workshop on legislation in the energy transition.

In this programme you will learn to work on a relevant and complex problem in a multidisciplinary setting. You will gain insight into other disciplines and you will acquire new knowledge from a direct need for that knowledge in a project.

The programme will provide lectures/training in sub-areas that are determined by the knowledge demanded by the project. Depending on the expertise, these lectures will be given by subject teachers, EnTranCe experts or external guest lecturers. EnTranCe provides expertise from the professorships Hydrogen and System Integration.

Course Outline

The course outline of this programme is not yet available in our ECTS course catalogue. For more information, please contact the course coordinator Oscar Grooten (o.h.grooten@pl.hanze.nl)

Language

English

Location

Groningen. The main locations are EnTranCe (Zernike Campus) and Hanze University of Applied Sciences.

Duration

One semester (30 ECTS credits).
Students who apply for this programme are expected to do the whole programme of 30 ECTS credits.

Course period

Spring semester (February-July)

Tuition Fees

Exchange students
Exchange students (students from partner universities) don't need to pay tuition fees.

Certificate students
Costs for certificate students (students not from partner universities) can be found under hanze.nl/tuitionfees

Admission requirements

The programme is offered in the third year of a (4-year) bachelor programme. Students need to have completed 120 ECTS credits (4 semesters) at undergraduate level in the field of Mechanical Engineering, Electrical Engineering, Industrial Engineering & Management, Built Environment or Chemical Engineering.

Language requirements
Exchange students need to have a good level of English, comparable to IELTS 6.0, TOEFL 550 or CEFRL B2.

Certificate students need to give proof of English proficiency: IELTS 6.0 or TOEFL 550.

Application (deadline)

Application deadline
1 November (Spring Semester)
Students from Bangladesh, Pakistan and Nepal need to apply before 1 October

For more information regarding practical matters (application, housing, tuition fees), you can contact the International Service Desk.

Notes

The schedule for this programme may vary from week to week. The programme is intensive and students who apply for this programme are expected to be available and present for the whole duration of the programme.