Hogeschool van Arnhem en Nijmegen
HAN University of Applied Sciences

HAN University of Applied Sciences

Got your sights set on an international career?

International Degree Courses 2019-2020

Bachelors

- Automotive Engineering
- Chemistry
- Electrical and Electronic Engineering
- Life Sciences
- Mechanical Engineering
- Communication
- International Business
  - Finance
  - Organisation & Change
  - Marketing & Sales
  - Supply Chain Management

Masters

- Molecular Life Sciences
- Engineering Systems
  - Automotive Systems
  - Control Systems
  - Embedded Systems
  - Lean Engineering
  - Sustainable Energy

HAN

Got your sights set on an international career?

Content

Inspiring environment. Innovative and skilled professional staff. International student body. These are just some of the ingredients that make up HAN University of Applied Sciences in the Netherlands.

We make it our business to offer higher education of an outstanding quality to students across the globe. It is our goal to prepare each of our students to meet the unique challenges found in today's working world. Our skilled professionals accomplish this by combining practical education methods with specialised, internationally focused teaching.

One of the key benefits of our courses is that we fully support our students' development, knowledge and expertise by offering them a global perspective. Our approach is to weave international business practices into our teaching activities. That is why we attract international staff and students to our institution, making our campuses truly diverse environments.

This is HAN University of Applied Sciences in the Netherlands. Welcome!

Located in the historic eastern Dutch cities of Arnhem and Nijmegen, the campuses of HAN University of Applied Sciences offer outstanding professional courses to over 34,000 students. HAN has even been ranked top provider of Masters courses in the Netherlands. What makes our education so unique? Our courses combine a solid theoretical basis with practical application in the field so that students are well positioned to enter the job market as soon as they graduate. All courses at HAN University of Applied Sciences are accredited by the Dutch Ministry of Education and the Accreditation Organisation of the Netherlands and Flanders (NVAO).

Study & the Netherlands

Whether you call it Holland or the Netherlands, it is the chosen study destination for over 122,000 foreign students each year. The cultural diversity represented by more than 160 nationalities makes Holland the perfect place for exchange of knowledge, ideas and cultures. Besides this cosmopolitan atmosphere, it is also very secure and was placed in the top 20 of safest countries in the world. With their very open and direct manner, the majority of Dutch people also speak English along with another foreign language, like German or French. Recently the Netherlands was even ranked number one on English proficiency out of 72 countries where English is spoken as a second language. So you do not have to learn Dutch in order to study here. As a foreign student you will notice how welcoming and tolerant the Dutch are, a mentality that has been engrained in the Dutch culture throughout its rich international history.

What also characterises this internationally oriented country is its strong and stable economy along with a highly innovative entrepreneurial climate. Holland is the fourth most competitive economy in the world and has a leading position in the export market despite its small size. So there is little doubt why economics is the most popular area of study for foreign students, with 28,581 students enrolled in 2017 alone. Being at the forefront of innovations in technology comes naturally to the Dutch. Around 18,990 foreign students came to Holland in 2017 to benefit from the Dutch innovative spirit and the highly specialised know-how in science and engineering.

HAN University of Applied Sciences

Fields of study

HAN University of Applied Sciences offers just about every type of professional course in a wide range of fields: Education, Social Studies, Commerce, Communication, Business Administration, Law, Economics, Engineering, Built Environment, Applied Sciences, IT and Communication, Health, Nursing, and Sport and Exercise.

Students can choose from a total of 63 Bachelors courses, numerous exchange courses and 19 Masters courses.

This brochure is dedicated to describing our seven Bachelors and six Masters courses that are taught in English.

Study environment

At HAN, we ensure that the study environment is perfectly suited to the personal and professional development of our students. Our classrooms therefore have a small scale set-up, with 20-30 students in a class, ensuring that each student receives plenty of personal attention. Moreover, the interactive and student-centred style adopted by our teaching staff gives students the needed guidance as well as the freedom to develop professionally.

HAN also offers student coaching throughout all years of study to facilitate personal and professional development. The study coach is also the first point of contact for students who have questions about their study programme or personal matters.

HAN is proud to have a teaching staff with successful international careers, which offers students the best of both worlds when it comes to theory and practice. To stimulate development in practice, we offer work placements in the Netherlands and abroad, as well as practice-based assignments as part of our curriculum. This gives our students the opportunity to gain practical work experience in their chosen field. Experience that will strengthen their CV and help them get started or develop further in their chosen career.

Integration of theory and practice

At HAN University of Applied Sciences, the starting point of our education is the integration of theory and professional practice. We strive to let our students tackle concrete problems and opportunities facing the workplace today using the latest theoretical insights.

Professional tasks therefore play a crucial role: students continually work on case studies taken from professional practice. During the work placement students are given the ultimate challenge of putting their theoretical knowledge into practice by solving real problems in real working environments. Problem solving is therefore a key focus in curriculum development at HAN.

Professionals from industry and the business world also contribute to curriculum development at HAN, ensuring that the courses are up to date and relevant. By tailoring the courses to industry requirements, students have a clear advantage in the career market.

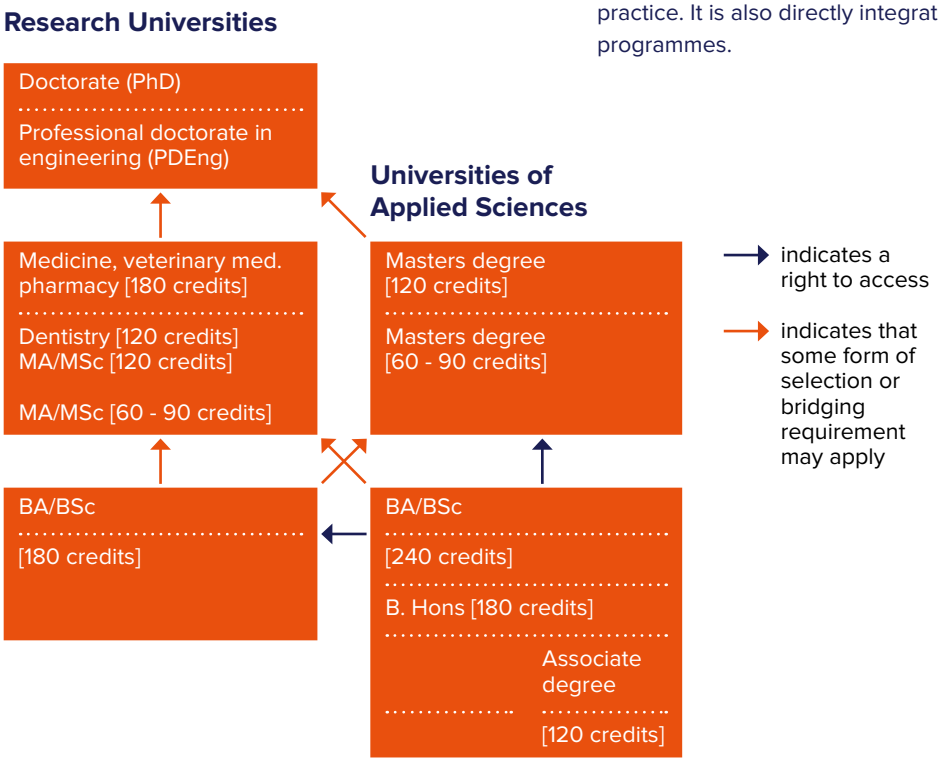
Applied research also plays an important role in the study programmes at HAN. Insights and research products developed within HAN's six research centres flow back into the professional field and education. This means that students have access to the latest insights and can even get hands-on experience in cutting-edge research!

HAN University of Applied Sciences is partnered with over 280 institutions around the world. Where would you like to study during your semester abroad?

The Dutch education system

Known for its high quality education and research, along with its international study environments, the Netherlands has two main types of higher education institutions: research universities and universities of applied sciences. So what is the difference?

Research universities focus solely on the independent practice of research-oriented work in an academic or professional setting. Universities of applied sciences offer their students professional courses in the areas of applied arts and sciences. Research is also carried out at universities of applied sciences, but it is always practice-based and aimed at renewing professional practice. It is also directly integrated into the study programmes.



Meet us

Open Days

Nijmegen
- Saturday, 10 November 2018
- Saturday, 12 January 2019
- Saturday, 6 April 2019

Arnhem
- Saturday, 17 November 2018
- Saturday, 19 January 2019
- Saturday, 30 March 2019

Your further education is an important step in your life. Although you can read up on everything there is to know about the courses in this brochure and on our website, you cannot feel the atmosphere of the HAN buildings or meet potential new lecturers and fellow students.

Come and meet us at one of our organised HAN Open Days or at an Education Fair to discuss whether this is the right place for you to study. If that isn't possible, perhaps we could arrange a Skype session. We could also set up a one on one informative meeting between you and one of our representatives or an alumnus if either is located near you. Please contact us to discuss the possibilities.

Open days and open evenings

If you live in or near the Netherlands, come and meet us at one of our Open Days or Open Evenings. You will get the chance to meet our lecturers and students, and get acquainted with our courses and facilities. Come to a HAN Open Day or Open Evening and take a look for yourself!

Education fairs

You can also meet HAN students, staff and alumni at various annual Education Fairs. Come by our exhibition stand and talk with our students. Our students and alumni are eager to share their first-hand experience about their studies at HAN – find out about study loads, student life and living in the Netherlands.

For more information
www.han.nl/meetus

Information sessions

HAN organises information sessions all over the world. There may be a session in your country soon. Why not take that opportunity to come meet our staff and ask your questions? Our staff can answer your questions and give you useful tips and advice about your specific situation. Don't miss your chance to come and meet us in your country!

Prospective students who wish to find out more about a course can request an informal meeting at any time. These can take place in person, but a Skype session, telephone meeting or video conference can also be arranged if necessary.

Student for a day

Do you want to know how it feels to study at HAN before making the final decision? Then why not be a student for a day and find out first-hand. This day is organised so you can sit in on regular classes, get a guided tour of the campus and talk to lecturers and students. Your parents and friends are also welcome, so why not bring them along too. That way you can discuss your experiences with them afterwards. What better way to find out whether HAN's international courses match your ambitions than to be a HAN student for a day?

Newsletter

Want to stay up to date on what's going on at HAN? Then subscribe to our newsletter.

International Bachelors degree

HAN University of Applied Sciences offers a wide range of courses at its campuses in Arnhem and Nijmegen. Its international Bachelors and Masters degree courses are organised from within various prominent schools and institutes, including Arnhem Business School and the Faculty of Engineering.

The Bachelors degree courses are 4-year, full-time, professionally-oriented courses where work placement is compulsory. The main component of the course is called the major. Next to the work placement and the major you will be free to broaden your interests and skills by also choosing a minor. In general, it takes 1 semester to finish a minor. The HAN Bachelors degree delivers its graduates excellent credentials and marketable skills upon entering the global career market.

Arnhem Business School

Arnhem Business School (ABS) is the internationally renowned business school within HAN University of Applied Sciences. It offers two English-taught Bachelors courses: Communication and International Business. ABS provides high-quality, challenging and engaging education that follows the latest trends in the business world. Student needs, the work field and society are at the core of the education provided at ABS. With a community of around 1,000 students from 60 different countries, ABS's main objective is to build on the international business studies and future employment opportunities of its students. ABS has an excellent international positioning. This comes from its large staff of lecturers with an international, successful professional background and our strong relationships with many well-known foreign companies and institutes of higher education. ABS students and staff also benefit from the school's collaboration with more than 100 partner universities all over the world.

Faculty of Engineering

HAN's Faculty of Engineering offers three English-taught Bachelors courses: Automotive Engineering at HAN's renowned Automotive Institute, Life Sciences at HAN's Institute of Applied Biosciences and Chemistry and Electrical and Electronic Engineering at HAN's Engineering Institute.

With more than 70 years of experience, the Faculty of Engineering provides its students with excellent teaching staff and outstanding facilities, including modern laboratories and equipment. The practical aspects of the courses are reinforced through laboratory work as well as through research done in cooperation with international and multinational companies. These specialised courses have paved the way for students to reach the absolute top in innovation, such as Oxford, Harvard or the Dakar Rally. Studying at HAN in one of these fields is the pathway to a highly meaningful and lucrative career.

For more information
www.han.nl/bachelorscourses

Bachelor

Automotive Engineering

Do you have a passion for cars and technology? Do you love challenges? Want to be part of the transition to clean, efficient and intelligent vehicles? Automotive Engineering at HAN gives you all the ins and outs of the international automotive world as well as a solid footing in marketing, management and business economics. Your skills will be in high demand.

Location	Arnhem
Duration	4 years
Degree	Bachelor of Science
Course start	September

The profession in a nutshell

Automotive engineers are versatile professionals with specific engineering skills relevant to the automotive trade. They are involved in designing, testing, managing, producing and maintaining vehicles. Automotive engineers constantly make decisions based on the combination of technology, commerce and business considerations. This sets them apart from business professionals as well as from the mechanical engineer since they have a broad knowledge of the product (the vehicle) and are the linking pin between a wide range of disciplines.

Theory and practice

At HAN University of Applied Sciences, theory and practice are closely interlinked. During the Automotive Engineering course you are constantly challenged to put theory into practice. For instance, when considering practical questions like: What kind of engine would you use for a kart – electric, combustion or hybrid? Throughout the course you work in groups of 6-8 students on practical assignments and projects focused on future mobility concepts. One such project is the multidisciplinary HAN Formula Student Team, where you build a formula race car and use this to compete against teams from all over the world. The HAN Eco-marathon is another project where you work in a team of students. The goal here is to develop the most energy efficient vehicle possible.

Research

Specialised education and applied research have played a crucial role in the recent reorganisation of the Dutch automotive sector. HAN's automotive institute has kept pace with these changes by integrating research into its education. Students, lecturers and researchers conduct applied research on topics such as smart mobility, electrification of the powertrain and advanced driver support. The results flow back into education and into the professional field. This way you will be at the forefront of developments in the automotive sector.

Lab facilities

HAN Automotive Institute has modern, well-equipped labs. Here you work on developing, testing and improving all kinds of vehicles. For example in the hydrogen lab, where you can test equipment that enables vehicles to run on hydrogen. Or you can use the research lab with its many test environments. Almost all of these are fitted with self-developed data acquisition equipment based on LabVIEW, a graphic programming language. As an Automotive Engineering student at HAN, you have the facilities you need to test and develop innovative mobility solutions of the future.

A solid foundation

The first two years of the course give you a solid foundation in all the disciplines within automotive engineering. This way you discover where your interests and talents lie, so you can make choices about specialising later on in the course. Besides automotive and technical subjects, you also learn the ins and outs of management, communication and energy conservation. These topics are always approached in the context of projects, so you can immediately apply your knowledge in practice.

'Since my childhood, automobiles have been my passion. Studying Automotive Engineering at HAN has proven to be just what I expected since my first visit to an Open Day. The lectures are well structured and allow for specialisations based on your interests. This is complemented by various projects that not only give us a chance to implement theoretical knowledge, but also provide an insight into teamwork and management.'

Rohan Patil – Indian student

Work placement

In your 3rd year you do a work placement at an internationally oriented company, preferably outside the Netherlands. This exposes you to new information and working practices in your field of study. Before you start, you are coached on all aspects of the work placement during a preparation programme. Of course you are free to choose your own work placement. You could go to one of our partners in the Netherlands, for example DAF or VDL. Or what about spreading your wings and going abroad, to a company like BMW or Delphi? At HAN we encourage you to choose the path that's right for you.

Minor

The 4th and final year of your studies begins with a minor programme for one semester. This allows you to deepen or broaden your knowledge in a particular aspect of automotive engineering. If you prefer to stay in the Netherlands, you could follow one of the excellent minors offered by HAN Automotive Institute: Light Weight, Autotronics, Internal Combustion Engines or Intelligent Vehicles. Another option is to follow a minor at another university in the Netherlands or abroad, or follow a bridging programme to prepare you for a Masters course.

Graduation assignment

At the very end of your course, it's time for your most challenging step so far: the graduation assignment. This is the final evaluation of all the knowledge and skills you have acquired. You need to demonstrate that you've gained the competencies required of an automotive engineer at an academic level. You independently complete an assignment and present your findings and solutions in a graduation report. You can do your assignment at an international automobile company of your choice, such as Volvo, DAF or Aston Martin.

Bachelor Automotive Engineering

International setting

The Automotive Engineering course has a strong international focus. It gives you the opportunity to study abroad during your minor or work in a company outside the Netherlands during your work placement or graduation assignment. Besides that, you also have the experience of a truly international classroom, with students from over 40 different countries. While working together on projects, you pick up on the different cultural habits and ideas of your classmates. This way you learn how to effectively work with people from different cultures and backgrounds. An essential skill for a successful career in the global automotive industry.

Career prospects

As an Automotive Engineer you can work for a wide range of businesses, institutes and agencies. You could be active in the research and development, manufacturing or sales of products associated with automobiles or transport. The course organises an annual career day, where over 40 companies are present to give information on work placements, graduation projects and jobs.

Our graduates get jobs as:

- Vehicle Development Engineer
- Engine Development Engineer
- Vehicle Test Engineer
- Engine Test Engineer

Masters?

If you enjoy studying and want to specialise even further, you can always continue with a Masters degree. There are numerous Masters programmes in the Netherlands and abroad that might be interesting once you've graduated. With a BSc in Automotive Engineering from HAN, it will be a smooth transition into one of these HAN Masters programmes:

- Master in Automotive Systems
- Master in Control Systems Engineering

A good match?

- Are you passionate about automotive engineering?
- Are you technically inclined?
- Are you interested in motor vehicles and mechanical engineering?
- Do you enjoy working with other people?
- Are you open to change?

Is your answer to most questions YES?
Then this course would be a good match for you.

Study load per week

Contact hours: 20
Individual study hours: 20

Division theory, practice and study coaching

Theory: 45%
Practice: 45%
Study coaching: 10%

Graduation percentage

63% of students graduate within 5 years

Employability

96% of all graduates find a job within 12 months

Course overview

1st year

- Introduction to Automotive Engineering
- Mathematics
- Mechanics
- Vehicle Dynamics
- Engine Technology
- Electronic and Embedded Systems
- On-board Diagnosis
- Commerce and Marketing
- Communication Skills

2nd year

- Control Systems Engineering
- Electrical Systems
- Mechanics
- Dynamics
- Strength of Materials
- Production
- Marketing and Communication

3rd year

- Work Placement
- Specialisation

4th year

- Minor
- Graduation Assignment

For more information
www.han.nl/automotiveengineering

Bachelor

Chemistry

Would you like to make a difference through science? To work on chemical analyses in the development of new products? Or that help to keep our environment clean? Sign up for Chemistry at HAN University of Applied Sciences and get a solid start to a rewarding career.

Location	Nijmegen
Duration	4 years
Degree	Bachelor of Science
Course start	September

The profession in a nutshell

In this profession you focus on the composition of materials and how their chemistry changes under certain conditions. That means you carry out a lot of experiments in the laboratory. For example, to develop and analyse new products such as food, medicines or plastics.

Theory and practice

Theory and practice are inseparable at HAN University of Applied Sciences. You get a solid theoretical foundation in all the current research topics in chemistry and at the same time you dive straight into practice in the lab. This means working in groups of students on projects that deal with real problems in the chemistry field. And because HAN University of Applied Sciences collaborates with companies and research institutes in the Netherlands and abroad, you get to work on cutting-edge research projects. This gives you invaluable experience as well as problem-solving and communication skills that put you in high demand on the labour market.

Research

Practice-based research is a key focus at HAN. During your studies, you can work on research projects at the HAN Biocentre or at other universities or institutes. The HAN Biocentre focuses on biodiscovery, which involves the discovery, analysis, production and application of biomolecules such as proteins and metabolites.

At this centre you work on projects together with staff and other students. Your aim is to find answers to actual questions from the professional field. But you might choose to go further afield or even abroad. Some of our Dutch students have participated in research on food analysis at RIKILT and the analysis of pharmaceutics at MercaChem.

Lab facilities

During your studies, you will have access to excellent lab facilities. All the basics as well as advanced apparatus are available. What's more, HAN even has specialised nanotechnological labs. Here you can do research on the interface between biomedical technology and chemistry.

A solid foundation

In your 1st year you start on a joint programme with Life Sciences students. In the 2nd semester you focus more specifically on analytical and organic chemistry. This gives you a solid theoretical foundation on which to develop essential practical and research skills. In your 2nd year you continue with analytical and organic chemistry and also delve into polymer chemistry.

Work placement

The aim of the work placement is to develop your knowledge and skills in a professional setting. The work placement lasts for 1 semester and you can choose to do it in your 3rd or 4th year. Before you go into the field, you follow a thorough preparation programme. Once you're at your new workplace, a HAN lecturer and a company coach support you throughout. As a Chemistry student, you will do your work placement in a laboratory at an institution or company in the Netherlands or abroad.

Minor

In your 3rd or 4th year, you complete an elective semester, known as your minor. During this semester, you can choose to broaden your knowledge or gain more in-depth knowledge of a specific subject. HAN offers a number of excellent minors such as BioRefinery and Bio-Nanotechnology. But you can also choose to study a minor at another university of applied sciences in the Netherlands or abroad. Another option is to enrol for a pre-Master to prepare you for a Masters degree at a research university.

Graduation assignment

In your 4th year, you're ready to take your most challenging step so far: your graduation assignment. It gives you hands-on experience at designing and carrying out your very own research project. This project focuses on a major issue in the field of analytical chemistry. When it's finished, you give a professional presentation of the results. You can do your graduation assignment at a company, research institute or hospital in the Netherlands or abroad. For example at companies like Merck/MSD, Synthon Biopharmacueticals, CharlesRivers, MeadJohnson, AKZO, or Tejin Aramid. Or at a research department of universities such as Uppsala University (Sweden) or the University of Miami (USA).

International setting

The Chemistry course at HAN has a strong international focus. To start with, the department has contacts with numerous universities and companies in Europe, USA and Australia. This gives you great opportunities for going abroad during your work placement or graduation assignment. Besides that, your classmates come from all over the world, so you pick up on different cultural habits and ideas and learn to become culturally aware. You also become involved in international collaborations through a variety of research projects. All of this prepares you for a dynamic career in an international setting.

ASTP Talent Programme

HAN is a partner of the COAST Innovation Centre. This means that motivated and ambitious HAN Chemistry students can be nominated for the Analytical Sciences Talent Programme (ASTP). This is a 3-year talent programme that you follow alongside your regular studies. If you are selected, you receive a scholarship.

Bachelor Chemistry

Career prospects

This course qualifies you to work in the field of analytical chemistry. Graduates in this field are in high demand in the Netherlands, so you will have excellent career opportunities. You could work in the pharmaceutical or food industry at companies like Shell or Akzo-Nobel. Or you could work at a hospital or environmental agency, or at an independent research institute like TNO or the Netherlands Food and Consumer Product Safety Authority.

Our graduates get jobs as:

- Research Assistant
- Chemical technician
- Junior Project Leader

Masters degree?

Would you like to continue your studies? With a BSc from HAN, you can enrol in any number of Masters courses in the Netherlands or abroad. For example a Masters in Analytical Chemistry.

A good match?

- Are you good at chemistry?
- Are you a hard worker?
- Are you accurate?
- Do you enjoy working with others?
- Are you someone who doesn't give up easily?
- Are you actively involved in your community/ society?
- Do you have solid maths skills?

Is your answer to these questions YES?
Then this course would be a good match for you.

Study load per week

Contact hours: 20
Study hours: 20

Division theory, practice and study coaching

Theory: 50%
Practice: 40%
Study coaching: 10%

Course overview:

1st year

- General Chemistry
- Analytical Chemistry
- Organic Chemistry
- Biology
- Laboratory Practice
- Mathematics
- Laboratory Mathematics

2nd year

- Organic Chemistry
- Analytical Chemistry
- Polymer Chemistry
- Laboratory Practice

3rd year

- Specialisation in Analytical Chemistry
- Work Placement or Minor

4th year

- Work Placement or Minor
- Graduation Project

For more information
www.han.nl/chemistry

Bachelor

Electrical and Electronic Engineering

Would you like to use science and technology to improve the world we live in? To be part of the transition to sustainable energy? To make machines and devices more user-friendly? By choosing Electrical and Electronic Engineering at HAN you can be part of these exciting changes.

Location	Arnhem
Duration	4 years
Degree	Bachelor of Science
Course start	September

The profession in a nutshell

The field of Electrical and Electronic Engineering has many practical applications, for example in healthcare, the automotive industry, sustainable energy and the processing industry. This course will give you all the necessary theory and skills to become an engineer. In this profession you often work in a team with other engineers and people from other disciplines. If you specialise in Embedded Systems (ES) you will design, build and test intelligent systems and smart devices. If your focus is on Industrial and Power Systems (IPS) you will design smart solutions in industrial automation.

Theory and practice

At HAN University of Applied Sciences theory and practice are inseparable. Right from the start of the Electrical and Electronic Engineering course you put theory into practice in loads of innovative projects. What's more, you have the freedom to choose the projects you like. Because HAN works in close collaboration with the Dutch energy world, you get to work on real projects for real companies.

Here are a few examples:

- Autonomous vehicle (1st semester)
- Wind-driven vehicle (2nd semester IPS)
- Healthcare appliances (2nd semester ES)
- Parallel robot design (3rd year IPS)
- IoT enabled fitness environment (3rd year ES)

Research

HAN's Sustainable Electrical Energy Centre of Expertise (SEECE) is closely linked to the course. Through this research centre, HAN develops and shares knowledge about innovations in the field of electrical energy. Staff and students work together to conduct practice-based research on topics like solar power and wind energy, with and for professionals in the field.

Lab facilities

As a student of the Electrical and Electronic Engineering course, you have access to our state-of-the-art lab facilities. The course has its very own workshop, equipped with measuring tables and modern measuring instruments, including signal generators and oscilloscopes. Everyday project materials such as electronic components and development kits are directly available there. You can also use the specialised labs to work on projects involving electronics, electric drives, control systems engineering, embedded systems and Linux.

'I really like the study programme I chose. The course is really challenging which always gives motivation to learn more. My interest in technology has only grown even more ever since I joined this course. The most remarkable project I worked on so far was the 'Robot Car' project. During this project we worked with sensors and programmed them for smart functions like collision prevention. It was a really challenging and fun project.'

Shaheer Nawaz – British student

A solid foundation

Your 1st year will give you a solid foundation in all the current topics in the field of electrical and electronic engineering. By the end of the 1st semester, you're ready to delve into your area of specialisation: Embedded Systems (ES) or Industrial and Power Systems (IPS). Right from the start you go hands-on, applying what you've learned during individual and group projects. This approach gives you invaluable practical skills: not just the technical skills that every engineer needs, but also social and communicative skills.

Work placement

An integral part of your 3rd year is a work placement at a research institute or company of your choice. The work placement aims to develop your professional knowledge and skills, and prepares you for the job market. Before embarking on this exciting challenge, you get a thorough preparation programme that tackles all the important aspects of the work placement. With the IPS specialisation, you might do your work placement at TenneT, one of Europe's top five electricity transmission system operators. If you're specialising in ES you could go to Prodrive, an electronic and mechatronic solutions firm.

Minor

In the 4th year you follow a minor, an elective semester aimed at broadening or deepening your interests and skills. If you like, you can stay close to home by choosing one of HAN's excellent practice-based minors:

- Embedded Vision Design: developing embedded hardware/software solutions to extract data from camera images
- Out of Control: designing control systems for motion, transport and energy conversion
- Power Minor: designing an electrical system or installation (in collaboration with TenneT and two other universities)

Or are you keen to go further afield and experience yet another educational environment? Perhaps even another culture? At HAN we encourage you to find the path that's right for you, so you're free to do an exchange course at another university in the Netherlands or abroad.

Bachelor Electrical and Electronic Engineering

Course overview

1st year
- Electrical Engineering Fundamentals
  - Mathematics
  - Electrical Circuits
- Information Technology
  - C Programming
  - Logic Circuits
- Project
  - Workshops 8-bit Microcontrollers
  - Workshops Electronics
  - Professional Skills
- Specialisation: Embedded Systems (ES)
  - 32-bit Microcontrollers
  - C++ Programming
- Specialisation: Industrial and Power Systems (IPS)
  - Introduction to Electrical Machines

2nd year
- Control Systems
- Data Communication
- Electronics
- Specialisation: Embedded Systems (ES)
  - Operating Systems
  - Software Engineering with UML
  - Digital System Design
- Specialisation: Industrial and Power Systems (IPS)
  - Power Electronics
  - Electrical Machines
  - Distribution and Low Voltage Grid

3rd year
- Work Placement
- Digital Signal Processing
- Specialisation: Embedded Systems (ES)
  - Internet of Things
  - Databases
- Specialisation: Industrial and Power Systems (IPS)
  - Systems Modelling
  - Servo Control
  - Control Systems

4th year
- Minor
- Graduation Assignment

Graduation assignment

The second semester of the 4th year is when you take your final and most challenging step so far: the graduation assignment. During this individual assignment, you are guided by a company coach and a HAN lecturer to tackle a real issue for a company. Now you're definitely on your way to becoming a skilled and independent engineer. You can do your assignment at an internationally renowned firm, like Océ, a printer firm (part of Canon), or Liander, the largest grid operator in the Netherlands. But you may also opt for an innovative small or medium-sized enterprise (SME) in the region.

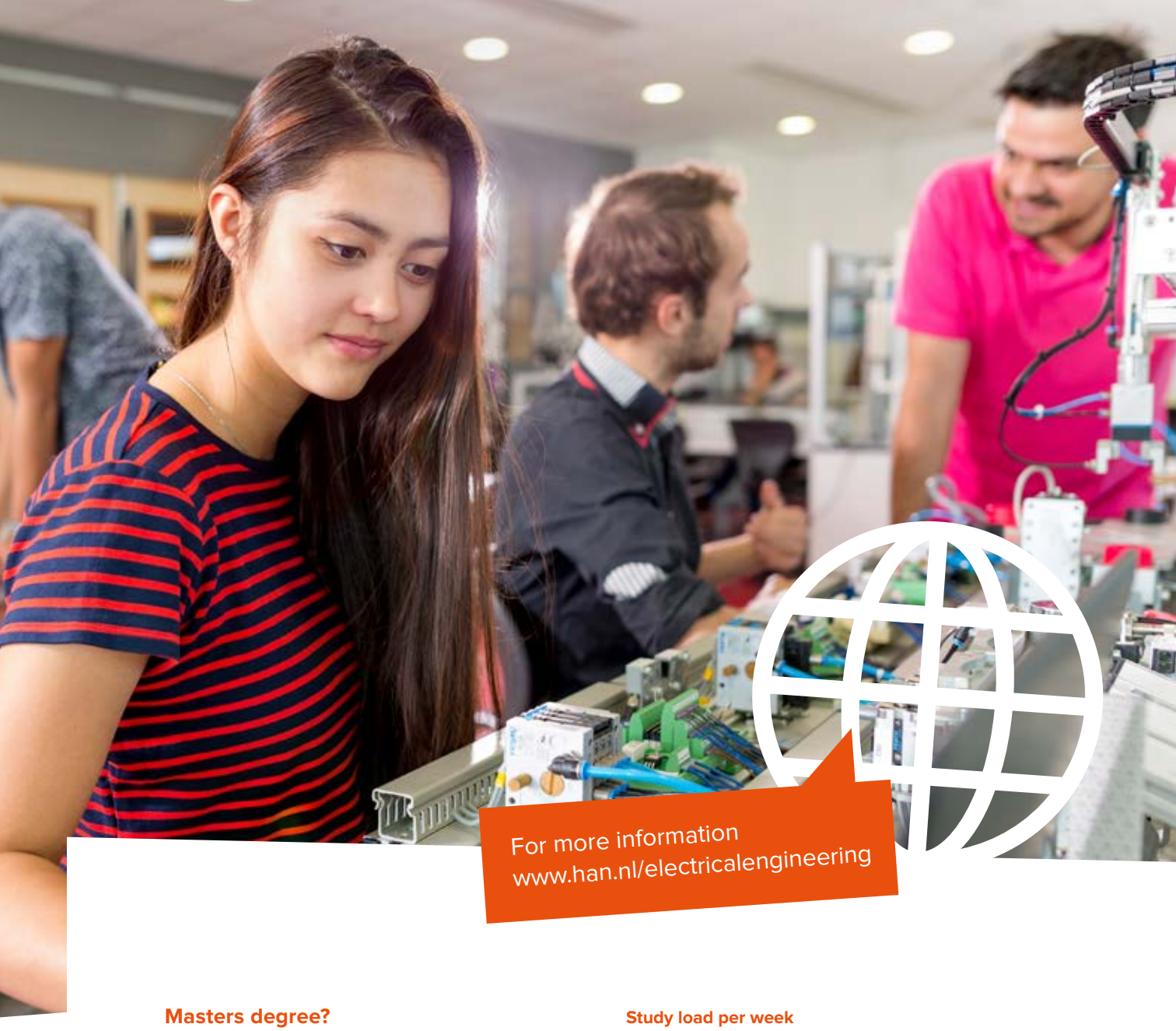
International setting

During your studies you will be part of a truly international classroom with students from over 20 different countries. By studying in such a setting, you pick up on different cultural habits, customs and ideas. You learn to deal with these differences and gain cultural awareness. What's more, you can broaden your international experience by doing your minor abroad. Whichever path you choose, this course will thoroughly prepare you for a career in an international setting.

Career prospects

As an electrical engineer, you can choose from any number of employers in both the commercial and public sector. You could work in industries such as product manufacturing, electro-technical companies, oil and gas processing, food processing or the energy sector.

Our graduates get jobs as:
- Embedded Software/Hardware Engineer
- Lead Engineer
- Advisor
- Team Leader
- Industrial Automation Engineer
- Power Engineer



For more information
www.han.nl/electricalengineering

Masters degree?

Would you like to continue your studies? With your BSc from HAN, it will be a smooth transition into HAN's Masters in Control Systems Engineering. Or you could opt for another Masters programme in either Electrical Engineering or Embedded Systems in the Netherlands or abroad.

A good match?

- Are you interested in science and technology?
- Are you inquisitive?
- Do you like investigating how things work?
- Do you like working with other students?
- Do you have a good feel for trends in new technologies?
- Do you want to know exactly how to design things in a safe and sustainable way?

Is your answer to most questions YES? Then this course would be a good match for you.

Study load per week
Contact hours: 20
Study hours: 20

Division theory, practice and study coaching
Theory: 50%
Practice: 40%
Study coaching: 10%

Graduation percentage
61% of students graduate within 5 years

Employability
100% of all graduates find a job within 12 months

Bachelor

Life Sciences

Would you like to use science to improve the world we live in? To come up with solutions for world food shortages? To work on cures for cancer? These and other important advances all start with research in the laboratory. By studying Life Sciences at HAN University of Applied Sciences, you'll get a solid footing in this exciting field.

Location	Nijmegen
Duration	4 years
Degree	Bachelor of Science
Course start	September

The profession in a nutshell

Life Sciences gives you the skills and understanding to perform lab research in different scientific settings, including fundamental research and quality control. You can specialise in molecular plant biology, biomedical research, or biotechnology. Your practical experience combined with your scientific knowledge and skills make you a valuable asset to a wide range of employers.

Theory and practice

Theory and practice are inseparable at HAN University of Applied Sciences. You get a solid theoretical foundation as your lecturers guide you through all the current research topics in life sciences. But at the same time, you dive straight into practice in the lab. In fact, half your time is spent doing practical work. This means working in groups of 4-6 students on projects that deal with real problems in the field of life sciences. And because HAN University of Applied Sciences collaborates with companies and research institutes in the Netherlands and abroad, you get to work on cutting-edge research projects. This gives you invaluable experience as well as problem-solving and communication skills that put you in high demand on the labour market.

Research

At the HAN Biocentre, staff and students conduct practice-based research in answer to specific questions from the professional field. The centre focuses on biodiscovery, which involves the discovery, analysis, production and application of biomolecules such as proteins and metabolites. As a Life Sciences student you can also participate in various research projects at other universities and institutes. Some students have participated in research on melanomas at the Department of Pathology and Cancer Biology (Vanderbilt University Nashville). Others have contributed to research at the Biochemistry Department at the University of Oxford. This involves C. elegans, a nematode that enables the study of pathological conditions, such as tumour formation.

Lab facilities

During your studies, you will have access to excellent lab facilities. All the basics as well as advanced apparatus are present. What's more, specialised microbiological, plant and biochemical labs allow you to research DNA, RNA and protein in different organisms. To make cells visible you can use light microscopy, fluorescent microscopy and electron microscopy. For molecular research on skin cancer, you have access to real-time PCR apparatus, a high-performance plate reader and a flow cytometer. And to make biological products, you can use the fermentation lab, where bacteria, fungi and yeasts can be fermented under ideal conditions.

'Life Sciences is a course where practical skills are essential. At HAN, there is a lot of attention for the practical side and the lectures complement what we practice in the laboratories. What I like is that we learn things that are actually applicable in our future jobs. Studying at HAN has brought me many things, not only improving my scientific skills but also improving my social and soft skills such as how to do a presentation.'

Aufa Kunti Riona Aryandhani – Indonesian student

A solid foundation

In your 1st year, you get a solid foundation in the life sciences, learning all the basic theories and lab techniques. At the same time you go hands-on with group projects that help you learn to patiently deal with actual life sciences challenges like cancer research. Starting from the 2nd year, your lecturers challenge you to work more independently. This allows you to gain experience in setting up research and in analysing and interpreting research results. At the end of the 2nd year, you are ready to choose your specialisation: molecular plant biology, biomedical research or biotechnology.

Work placement

In your 3rd year, you do a work placement of one semester at a research institute, a teaching hospital or a company in the Netherlands or abroad. This will boost your professional knowledge and skills and prepare you for the international job market. You are free to choose your own work placement, giving you the opportunity to experience the particular field you're interested in. Some students have done their work placement at Keygene N.V., an agricultural biotech company, while others have been to the University of Bonn in Germany. Before you begin, you follow a preparation programme that deals with all the important aspects of the work placement.

Elective semester

In the 3rd or 4th year of the course, you complete an elective semester in which you broaden or specialise your knowledge. HAN offers a number of excellent electives in the field of life sciences: Biorefinery, Molecular Plant Biology or Research. But you might prefer to spread your wings by studying at another university in the Netherlands or abroad. Perhaps you intend to continue your studies after your Bachelors degree. In that case a bridging 'pre-master' programme will be a great option. Either way, at HAN we encourage you to find the path that's right for you.

Graduation assignment

In your 4th year, you're ready to take your most challenging step so far: your graduation assignment. It gives you hands-on experience at designing and carrying out your very own research project at a company or research institute. This project focuses on a major issue in the field of life sciences. When it's finished, you give a professional presentation of the results. You can do your graduation assignment at a company, research institute or hospital in the

Bachelor Life Sciences

Netherlands or abroad. Students who went before you did their assignments at companies such as Merck/ MSD and Synthon Biopharmaceuticals, or at research departments of universities such as Dundee University in Scotland or the University of Queensland in Australia.

International setting

The Life Sciences course has a strong international focus. It allows you to study abroad and to work at a company outside the Netherlands during your work placement or graduation assignment. Besides that, your classmates come from around 25 different countries, so you pick up on different cultural habits and ideas and learn to become culturally aware. You also become involved in international collaborations through a variety of research projects. All of this prepares you for a career in an international setting.

Career prospects

As a Life Sciences graduate, you can work in either the commercial or private sector. This could be at a research institute, a hospital, a health agency or a pharmaceutical company. The type of work includes researching diseases, designing new drugs or undertaking quality assurance.

Our graduates get jobs as:
- Research Assistant
- Researcher
- Junior Project Leader

Masters?

Would you like to continue your studies? With a BSc from HAN, you'll experience a smooth transition into the HAN Master in Molecular Life Sciences. Or you could opt for another Masters programme, for example Molecular Chemistry, in the Netherlands or abroad.

A good match?

- Are you interested in molecular biology and DNA?
- Are you good at chemistry and maths?
- Did you enjoy doing experiments in school?
- Do you like the idea of working in a lab?
- Are you hard working and accurate?

Is your answer to most questions YES? Then this course would be a good match for you.

Study load per week
Contact hours: 20
Individual study hours: 20

Division theory, practice and study coaching
Theory: 50%
Practice: 40%
Study coaching: 10%

Graduation percentage
57% of all students graduate within 5 years

Employability
97% of all graduates find a job within a year

Course overview

1st year
- Cell Biology
- Molecular Biology
- Biochemistry
- Microbiology
- Genetics
- Chemistry
- Laboratory Mathematics
- Error Analysis
- Bioinformatics
- Mathematics
- One-day mini work placement

2nd year
- Molecular and Biochemical Research
- Interaction between Human, Plant and Microorganisms

3rd year
- Biomedical Research
- Molecular Plant Biology
- Biotechnology
- Work Placement
- Elective (3rd or 4th year)

4th year
- Elective (3rd or 4th year)
- Graduation Assignment

For more information
www.han.nl/lifesciences

Bachelor

Mechanical Engineering

Would you like to design and construct the machines of the future? To improve them so they are more energy efficient? Or so they can run on sustainable energy? Sign up for Mechanical Engineering at HAN and kick-start your career in this innovative field.

The profession in a nutshell

In this course we focus on the two main fields of application, namely mechanical engineering and energy systems engineering. An example of the first is machine design. Here you apply technology to increase machine performance parameters. This could be anything from huge cranes to the smallest micro-mechanical applications in healthcare. Mechanical engineers also design energy systems to reduce energy, and they work on the application of sustainable energy. Apart from these main fields, mechanical applications often require steering and control, cost efficient design and human-machine interfaces. In short, the profession of mechanical engineering is a broad, multidisciplinary field.

Theory and practice

Applying theory in practice is crucial for two reasons. It helps you understand complex ideas and gives you valuable practical experience. That's why already in the 1st year you start working on projects in small groups. For example, to understand the principles of construction, you work on creating a windmill, a wind-driven vehicle or a healthcare application. After that, you take it to the next level by working on more complex, real-life projects with an international dimension. This could involve a heat pump and thermal energy system design, industrial transport applications or machine redesign. And finally, you apply all your skills and knowledge during a work placement in the professional field.

Location	Arnhem
Duration	4 years
Degree	Bachelor of Science
Course start	September

Research

Research and education are closely linked at HAN. This ensures your education includes the latest insights and gives you experience with actual research projects. The Mechanical Engineering course is connected to HAN's Sustainable Electrical Energy Centre of Expertise (SEECE) and to research groups in Control Systems Engineering, Sustainable Energy and World Class Performance. In your 3rd year you learn more about the innovative collaborations of these groups through a professional learning community. The community shares knowledge and findings in order to achieve the best results for external project owners.

Lab facilities

HAN has excellent lab facilities. In our fully equipped workshop you can practice essential production technologies such as bending, cutting and welding but also more advanced techniques like CNC-machining and 3D-printing. Our materials lab allows you to conduct a stress-strain test, measure roughness and carry out a structure analysis, while our control systems lab gives you access to pneumatics and software PLC/PC-programming for industrial automation applications. Finally, our energy systems lab allows you to take practical measurements on cooling/heating systems.

A solid foundation

The 1st year gives you a solid foundation in the most important areas of mechanical engineering: constructional and energetic. Right from the start you apply what you've learned in individual and group projects. In the 2nd semester you start working on basic projects such as Electrical Power Systems and Hardware/Software Engineering in collaboration with other disciplines like electrical engineering. In the 2nd year you extend your knowledge and work on more complex, real-life projects with an external project owner. This approach gives you not just the technical skills that every engineer needs, but also social, intercultural and communicative skills.

Work placement

In the 3rd year, you embark on your work placement. The aim is to develop your knowledge and skills in a professional and commercial setting. Before you go into the field, you follow a thorough preparation programme. Once you're at your new workplace, a HAN lecturer and a company coach support you throughout. You can choose from a variety of companies such as Marel, Mars, Festo, DAF, Scania, NXP, ASML, Besi, Nuon, Heinz-Kraft and Bosch. Another option is a position within one of our research groups.

Minor

The 1st semester of the 4th year is an elective semester, also known as your minor. You can decide to gain more in-depth knowledge in a specific field of interest. Or you can choose to broaden your knowledge and skills. HAN offers a number of interesting minors in the fields of electrical and automotive engineering. Alternatively, you can choose to take a minor at another university in the Netherlands or go abroad to gain more international experience.

Graduation assignment

The 2nd semester of the 4th year is when you begin your final step: the graduation assignment. During this individual assignment, you are guided by a company coach and a HAN lecturer. Your task is to deal with a real issue for a company. You can do the assignment at an internationally renowned company. But you may also opt for a smaller innovative firm in the region or a research group.

Bachelor Mechanical Engineering

International setting

From day one of your studies, you will be immersed in an international environment. With classmates from all over the world, you quickly learn how to deal with cultural differences. This makes it easier for you to find your way in the global field of engineering. And you not only benefit from the international experience of your lecturers. You also gain valuable international experience yourself when you work on projects with the collaborating companies.

Career prospects

As a mechanical engineer, you will be in high demand in both the commercial and public sectors. Industries you could work in range from the process industry and the food and agricultural industry, to automation and sustainable energy. Typical jobs for mechanical engineers are:

- Construction Engineer
- Designer
- Team Leader
- Product and Service Engineer
- Work Planner
- Technical Sales Engineer

Masters degree?

Would you like to go on to earn a Masters degree? With your BSc from HAN, you'll have the perfect qualifications to enrol in HAN's Masters in Engineering Systems. Depending on your interests, you can choose one of the 4 tracks in this broad professional Masters course:

- Automotive Systems
- Control Systems Engineering
- Embedded Systems
- Sustainable Energy

A good match?

- Do you like taking things apart to discover how they work?
- Do you enjoy repairing things?
- Are you able to solve problems in mathematics and physics?
- Are you eager to learn about new technologies?
- Are you interested in mechanics and sustainable energy applications?
- Do you like making sketches of designs?

Is your answer to most questions YES?
Then this course would be a good match for you.

Study load per week

Contact hours: 20
Study hours: 20

Division theory, practice and study coaching

Theory: 50%
Practice: 40%
Study coaching: 10%

Employability

100% of all graduates find a job within 12 months

Course overview

1st year

- Fundamentals
  - Mathematics
  - Mechanics of Materials
  - Statics and Dynamics
  - 3D-CAD
- Mechanical Engineering
  - Production Techniques
  - Materials
  - Designing Methods
- Industrial Automation
  - Introduction to PLC-programming
- Energy Systems Engineering
  - Basics of Thermodynamics
  - Sustainable Energy
  - Electrical Engineering
- Project
  - Workshop Production
  - Safety
  - Professional Skills

For more information
www.han.nl/mechanicalengineering

2nd year

- Mechanical Engineering
  - Mechanics & Dynamics
  - Machine Components
  - Drive Technology
  - Additive Manufacturing
  - Fine Elements Method & Motion
- Energy Systems Engineering
  - Thermodynamics
  - Fluid Dynamics
  - CFD
  - Energy Systems
- Control Systems
  - PLC and PC Programming
  - Measurements & Instrumentation
  - Modelling
  - PID-controller Design
- Project
  - Construction
  - Energy
  - Professional Skills

3rd year

- Work Placement
- Integral Design Methods
  - Systems Engineering
  - Modular Design
- Business Economics
  - Profit & Loss, Cost Price
  - Return on Investment
- Production Optimisation
  - Statistics
  - Maintenance, Quality Control
- Project
  - Research
  - Professional Skills
  - Professional Learning Community

4th year

- Minor
- Graduation Assignment (mostly external within an international company)

Bachelor

Communication

Would you like to design an advertising campaign for a new fashion brand? Or develop a corporate communication strategy for an international non-profit organisation? Or what about enticing people to fly with a new international airline? Sign up for Communication at HAN University of Applied Sciences and discover how to tackle these communication challenges. Our course is especially designed to give you a head start on the global career market. You'll be prepared for a dynamic international career in marketing and communication.

Location	Arnhem
Duration	4 years
Degree	Bachelor of Arts
Course start	September or February

The profession in a nutshell

Communication professionals are the voice of organisations. They interact with diverse audiences using different forms of verbal, visual and online media. Communication professionals not only have a deep understanding of an organisation's culture, but also of its mission and goals. With this knowledge in mind, they foster and nourish relationships with:

- customers and clients – to sell their products or services (marketing communication)
- employees – to ensure everyone is on the same page (internal communication)
- partners, shareholders, regulators, government and the community – to foster cooperation and support (corporate communication)

Theory and practice

At HAN University of Applied Sciences, theory and practice go hand in hand. Our courses give a solid theoretical foundation, which you immediately put into practice. And because we work in close contact with the professional field, you get to solve real communication problems and work on real international cases. During the course, you embark on challenging group projects for external clients. These include making a digital magazine in your 2nd year and devising an integrated communication plan in your 4th year.

Research

Research is an essential part of working as a communication professional. For instance, you use research results to devise a strategic communication plan, supporting your advice with evidence. Throughout the course you build and refine your research skills. This means conducting research on target group behaviour, company image, internal communication, media analysis and online communication.

A solid foundation

In the 1st year you get an overview of the broad field of communication. You also study a foreign language: Dutch, French, German or Spanish. This language comes in handy later on when you do your work placement and study abroad. During the 2nd year you broaden and deepen your knowledge of the communication field with theory, practical assignments, research and your chosen foreign language.

Study abroad for a semester

In the 3rd year you broaden your knowledge and international orientation by crossing borders, moving out of your comfort zone and studying at a foreign university for a semester. HAN has over 280 partner universities across the globe, many of which are ready to offer you any number of interesting and useful subjects in the field of communication. Ever dreamt of studying in Australia, Spain, the USA, the UK, China or Mexico?

'As a Communication student, you get to solve organisational challenges and improve the communication practices within businesses. The course offers many practical, interdisciplinary projects, in which we can present our ideas and show creativity. What I like is that HAN understands the importance of organisational processes in modern business and takes an innovative approach in combining business understanding with intercultural skills.'

Nicole Prinzen – German student

Work placement abroad

In your 3rd year you do a work placement at an internationally oriented company, usually outside the Netherlands. This is the time to apply what you've learned and gain new perspective in a real business setting. You put your foreign language skills to work and get hands on experience dealing with different cultures and habits. Our students typically do their work placements at internationally operating companies like Nissan, Shell, Bosch, Dior, Vodafone, ING, Mercedes Benz and Adidas.

Graduation assignment

In your 4th year you will be ready for your greatest professional challenge so far: your graduation assignment. Collaborating with an internationally oriented company, you work out a planned solution to a communication problem at strategic level. This could be a/an:

- Marketing communication plan
- Branding plan
- Public relations (PR) plan
- Internal communication plan
- Online plan

What's more, you get to choose the organisation. Our students often do their graduation assignment for leading organisations like Dekra, Philips, KLM, Microsoft, Nike, Estee Lauder Benelux, Huawei, Nike and Philips.

International community

During your studies, you will be part of the Arnhem Business School community with students from around 60 different countries. While this international flavour is just what you're looking for, it might feel a little daunting at first. That's why we offer student-mentors to help you settle in. During your 1st semester, they help you make new friends, find your way around, plan your studies and deal with cultural differences. And when you graduate, you'll stay part of this community through Arnhem Business School's active alumni association. This way you can keep in touch and network with your old study mates. For more information, visit **www.arnhembusinessschool.com**

Up for an extra challenge?

Are you keen to take your studies a step further and do you enjoy working in a team? The ABS Talent Event is an exciting opportunity in the 4th year to present your team's business project to an international panel of lecturers and professors from our partner universities. It's also an invaluable learning experience about how your ideas, solutions, business plans and opinions translate across different cultures.

Bachelor Communication

Career prospects

As a communication professional, you can work in middle and higher management positions in the broad field of international communication. You might work at an advertising agency, government institution, non-profit organisation, publishing house or PR agency.

Our graduates get jobs as:

- Corporate Communication Manager
- International Marketing Communication Manager
- Account Manager
- Public Relations Manager
- Spokesperson
- International Brand Manager
- Social Media Manager

Masters degree?

After graduating you can always continue your studies at any number of universities across the globe.
For example, you could do a Masters degree in:

- International Communication
- Business Communication
- Communication Science

A good match?

- Are you open to your direct surroundings and the world in general?
- Are you inquisitive?
- Are you interested in current affairs and trends?
- Are you interested in other people and in communicating with them?
- Do you enjoy convincing others of your ideas?

Is your answer to most of these questions YES?
Then this course would be a good match for you.

Study load per week

Contact hours: 25
Study hours: 15

Division theory, practice and study coaching

Theory: 65%
Practice: 30%
Study coaching: 5%

Graduation percentage

67% of students graduate within 5 years

Employability

95% of all graduates find a job within 12 months

Course overview

1st year

- Persuasive Communication
- Marketing Communication and Branding
- Digital Marketing
- Research in Communication
- Creating Content
- Essentials of an Organisation
- Introduction to Public Relations
- Intercultural Awareness
- Personal and Professional Development
- Creativity and Critical Thinking
- English
- Dutch/French/German/Spanish

2nd year

- Project: Digital Magazine
- Branding and Concepting
- Design
- Research
- Strategic Analysis
- Internal Communication
- Public Relations and Corporate Communication
- Marketing Communication
- Advising and Presenting
- Integrated Communication Game
- Business Communication
- Dutch/French/German/Spanish

3rd year

- Study Abroad
- Work Placement Abroad

4th year

- Project: Integrated Communication
- Research
- Visual Communication
- Creative Execution
- Campaign Calculation and Planning
- Trends in Global Business
- Personal Leadership
- Online Management
- Converged Media Strategy
- Public Relations
- In-company Graduation Assignment

For more information
www.han.nl/communication

Bachelor

International Business

Would you like to work with people from all over the world? Do you always aim high? Are you business-minded and not afraid of taking initiative? Then International Business could be the perfect match for you!

Location	Arnhem
Duration	4 years
Degree	Bachelor of Business Administration
Course start	September or February

The course in a nutshell

International Business (IB) is an innovative, flexible course that equips you for the real world of international business. You step right into this dynamic and fast-paced world, where no two days are the same. In the 1st year you receive a solid foundation in all the facets of international business. In the 2nd year you choose one of four specialisations:

- Finance
- Organisation & Change
- Marketing & Sales
- Supply Chain Management

Throughout the course, you work on group projects and gain valuable international experience during your work placement and study abroad. What's more, you can choose for how long you want to go abroad: from 6 to 18 months. In the 4th year of your course, you work in a team of students on a project for a company. The final step is conducting research for an internationally oriented organisation: your graduation assignment.

Theory and practice

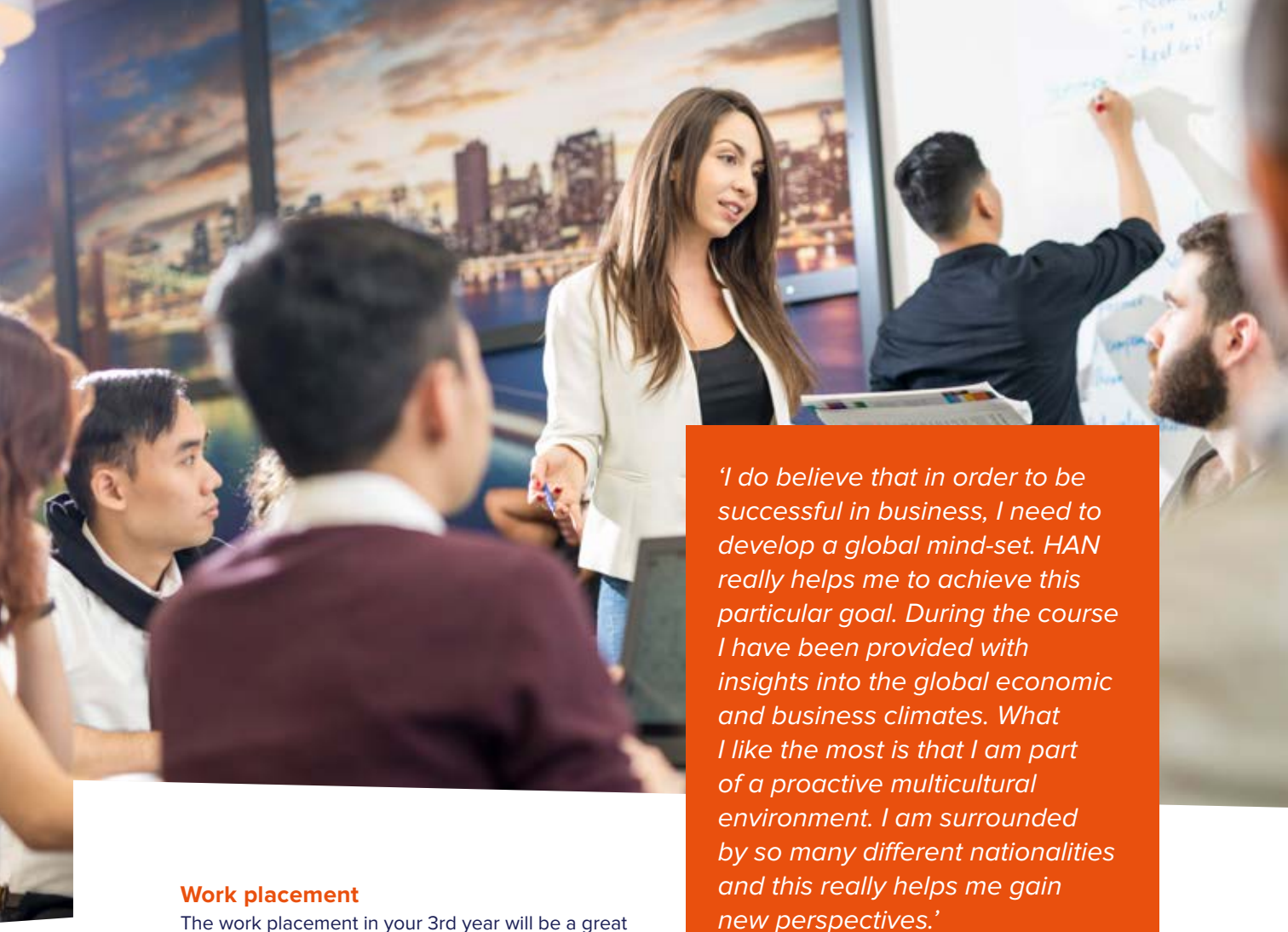
During the International Business course you not only learn theory, but also how to put it into practice. HAN's courses are renowned for their seamless integration of theory and practice. This is because the institution works in close collaboration with the professional field. You get the opportunity to work on a number of team projects in groups of 4 to 6 students: real projects for real companies. So when you graduate, you'll have the knowledge and skills that employers are looking for.

Research

As an international business professional, you need to validate the choices you make and the advice you give to companies. In other words, you need to do research. Research begins with critical thinking and making a sound judgement of the sources. During the course, you learn how to tell the difference between reliable and unreliable sources. You also gain other valuable research skills. These will be crucial when doing market research for a company that wants to expand into another country, for example. When you need to answer questions such as: Is there a feasible market in that country? Which target group should we focus on? Which resources should we use to get the best results? Questions you'll be able to answer by putting your research skills to work.

A solid foundation

During the 1st year you get a solid foundation in all areas of international business. This gives you a good idea of where your talents and interests lie so you can make an informed choice about your specialisation. You also study a foreign language in your 1st year: Dutch, Spanish, French or German. During the 2nd year you focus in more depth on your chosen specialisation. A vital aspect of doing business in an international setting is being able to understand other cultures. So an essential part of this course is developing cultural awareness and building up a solid international network.



'I do believe that in order to be successful in business, I need to develop a global mind-set. HAN really helps me to achieve this particular goal. During the course I have been provided with insights into the global economic and business climates. What I like the most is that I am part of a proactive multicultural environment. I am surrounded by so many different nationalities and this really helps me gain new perspectives.'

Andelija Milas – Romanian student

Work placement

The work placement in your 3rd year will be a great asset to both your studies and your CV. You get to experience business life first-hand. Not only do you learn about business practices in your field of specialisation, you also learn about your own performance in a professional situation. You further develop your communication skills and intercultural awareness, which will be vital if you are to succeed in an international environment. You can complete your work placement in the marketing, sales, finance or logistics departments of either commercial or public organisations. You might be sharing knowledge and soaking up experiences in the offices of Deloitte Consulting, KLM, BMW, or L'Oréal, to name but a few.

Study abroad

In the 3rd year, you broaden your knowledge and international orientation by studying at a foreign university for a semester. Get a taste of university life in another country and strengthen your foreign language skills at the same time! HAN University of Applied Sciences has over 280 partner universities across the globe. What about studying in Australia, Spain, the USA, the UK, New Zealand or Mexico? You can choose from numerous universities that have interesting courses in the field of International Business.

Graduation assignment

In your 4th year, you are ready for the final and most challenging step so far: your graduation assignment. You apply the knowledge, insight and skills you've gained during your studies to conducting research for an actual company. The aim is to develop a solution for a strategic business problem at that company. Depending on your specialisation, this could be:

- Strategic e-business plan (Marketing & Sales)
- Supplier lead time reduction plan (Supply Chain Management)
- Business performance measurements plan (Finance)
- Management innovation plan (Organisation & Change)

This assignment is done individually and on a project basis for a company of your choice, such as Philips, Siemens, Tesla, Kraft Heinz or Heineken.

Bachelor
International Business

Specialisations

Finance

As a finance expert, you operate at the company's financial heart. Every day you are challenged to solve the puzzle of linking money, information, products and services in the most profitable way. It's your job to develop and control procedures and systems so that decision-making is based on objective analysis and quantifiable information. At the same time, you have to keep the entire organisation in mind and balance the interests of all stakeholders. This requires a deep understanding of the human, cultural and non-financial aspects of a decision or transaction. Themes covered in this specialisation are international and corporate finance, accounting, risk management, external reporting and taxes, business communication and performance management.

Organisation & Change

Internationally operating companies have to continually adapt to keep up with the changes of today's globalising world. They have to address the shift to E-business and the growing need for innovation and sustainability, for example. In the Organisation & Change specialisation you learn how to support and advise businesses to tackle these changes. Themes covered are E-business, sustainability, operations management, innovation, leadership, project management and new types of businesses. You can also choose to study either Dutch, German, French or Spanish and learn to communicate in this language for business purposes.

Marketing & Sales

The main themes covered in Marketing & Sales are entering new markets abroad, international account management, improving international sales, international marketing and E-commerce. In this specialisation you learn how a company can expand into the global marketplace by investigating crucial marketing and sales questions, such as: What do customers want? Which new markets are potentially interesting? What's more, you need to be able to speak and write in a foreign language apart from English. You can choose from German, French, Dutch or Spanish and you'll learn how to use this language in a business environment.

Supply Chain Management

The supply chain covers the entire track: from raw materials, through production and distribution, into the hands of the customer, patient or client. As a supply chain manager, you're constantly weighing three competing interests: the customer needs, the operational possibilities and the financial consequences. You know the possibilities and limitations of all three parameters, whether in-house or at your suppliers. Your job is to find a balance between these interests and devise the best possible solution to ensure products or services are at the right place at the right time. To do this, you have to understand customer service and marketing perspectives, as well as sourcing, production, distribution and finance.

For more information
www.han.nl/internationalbusiness

International setting

Arnhem Business School is home to students from around 60 different countries. This mix of students will make your time studying here a truly international one. You'll pick up valuable cultural lessons from your study mates, learn a foreign language, work on international projects and have multiple opportunities to go abroad. While this international flavour is the very thing you're looking for, you might find it hard to adjust to your new environment at first. That's why we offer student-mentors to help you settle in. During your first semester, they help you make new friends, find your way around, plan your studies and deal with cultural differences. Once you're settled, you can enjoy being part of the lively Arnhem Business School community: an invaluable international network that will stimulate your creativity and entrepreneurial spirit. For more information, visit **www.arnhembusinessschool.com**

Career prospects

International Business prepares you for a global and dynamic career in the rapidly changing business environment. Attending meetings, discovering new markets, designing (online) marketing campaigns, travelling, liaising with clients, analysing data, negotiating: it's all in a day's work for IB graduates. Typically you can start in entry or trainee positions in organisation & change, finance, supply chain management or marketing at international companies and innovative enterprises in all sectors. Later on you can progress to middle and senior management positions.

- Our graduates get jobs as:
- Marketing Manager
- Change Manager
- Business Consultant
- Financial Analyst
- Project Manager
- Supply Chain Manager
- Account Manager

Bachelor
International Business

Masters degree?

After graduating you can always continue your studies at any number of universities across the globe. For example, you could do a Masters degree in:

- International Business and Management
- Business Administration
- Financial Management
- Supply Chain Management

Graduating in the supply chain management specialisation? Then you can directly enrol in the Masters in Logistics and Supply Chain Management at Cranfield University in the UK.

A good match?

- Are you commercially inclined?
- Are you open-minded towards people from other cultures?
- Can you deal well with change?
- Are you driven to be the best?
- Do you take the initiative?

Is your answer to most of these questions YES? Then this course would be a good match for you.

Study load per week

Contact hours: 20
Study hours: 20

Division theory, practice and study coaching

Theory: 65%
Practice: 30%
Study coaching: 5%

Course overview

1st year

- Marketing & E-business
- Intercultural Awareness
- Dutch/Spanish/French/German
- Finance & Cost Accounting
- Operations Management
- Supply Chain Management & Digital Innovation
- Research & Critical Thinking

2nd year

You choose your specialisation in:

- Finance
- Organisation & Change
- Marketing & Sales
- Supply Chain Management

3rd year

- Study Abroad
- Work Placement

4th year

- Business Project
- Strategy
- In-company Graduation Assignment

HAN Masters Programmes

HAN offers the following English-taught Masters courses:

- Engineering Systems: Automotive Systems
- Engineering Systems: Control Systems
- Engineering Systems: Embedded Systems
- Engineering Systems: Lean Engineering
- Engineering Systems: Sustainable Energy
- Molecular Life Sciences

Focus on implementation

These Masters courses have a strong practical focus. From the start, Masters students are sent into the field to solve complex problems or to implement innovations using their skills in critical thinking and academic research. This experience benefits both the students and their future employers.

For more information
www.han.nl/masterscourses

Small scale, up to date, peer focused

The courses are set up on a small-scale basis. Highly qualified lecturers with years of professional experience closely monitor their students' development using inspiring teaching methods. Course materials are linked to current events, real-world dilemmas and new academic findings from HAN research groups. Students learn, not just from lecturers but also from their peers. This contact with fellow students results in valuable learning networks.

International Masters title

Graduates of these Masters courses have thorough knowledge and skills in the area of their profession as well as an international orientation. This is developed through internationally oriented modules and teaching methods, an international student population and close contacts with globally operating businesses. Upon graduation, students receive a Masters title that is internationally recognised.

Master Engineering Systems

Are you ready to take your engineering skills to the next level? Do you want to kick start your career with great job opportunities? The Master in Engineering Systems offers five tracks: Automotive Systems, Control Systems, Embedded Systems, Lean Engineering and Sustainable Energy.

Location	Arnhem
Duration	1.5 years (full-time), 2.5 to 3 years (part-time)
Degree	Master of Science
Course start	September / February

The course in a nutshell

As a graduate of the Master in Engineering Systems course you will be able to apply research to solve complex problems and develop innovations that meet the needs of the market and/or society. You will have thorough knowledge and skills in engineering systems as well as an international orientation. This is developed through internationally-oriented modules and teaching methods, an international student population and close contacts with globally operating businesses.

The Master in Engineering Systems is offered with five tracks:

- Automotive Systems
- Control Systems
- Embedded Systems
- Lean Engineering
- Sustainable Energy

Theory and practice

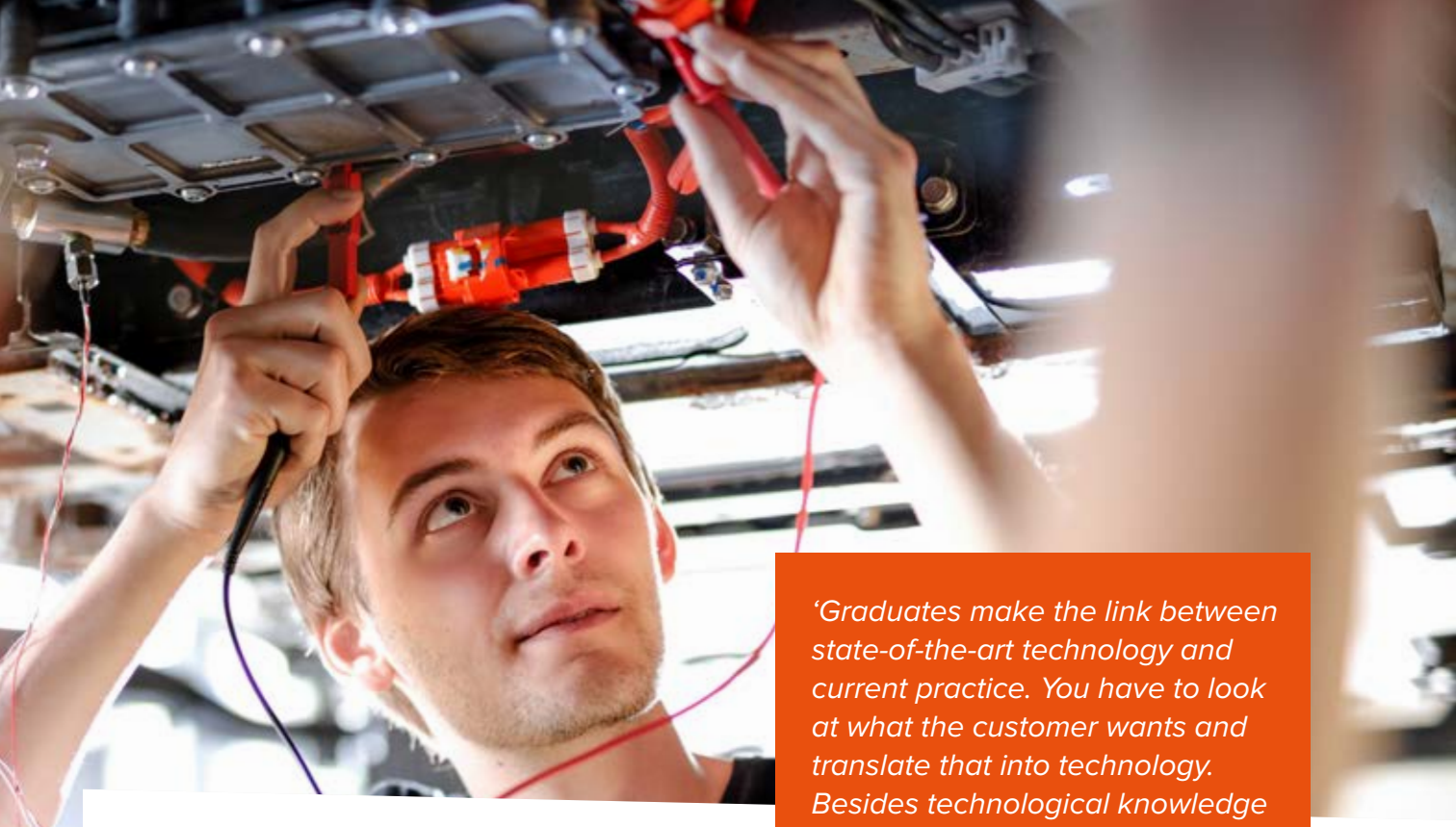
Theory and practice are seamlessly integrated in the degree courses offered by HAN University of Applied Sciences. During the Master in Engineering Systems, you put theory into practice during minor projects and during applied research for your major project report. Research is geared towards solving an actual issue from industry. So knowledge and techniques from fundamental research are implemented and applied in an industrial environment. This collaborative approach strengthens ties with industry and stimulates the exchange of knowledge. As a result, professional practice is constantly renewed and you benefit from a Masters degree that perfectly matches industry needs.

Research

Students and lecturers of the Master in Engineering Systems participate in applied research projects for HAN's Centres of Expertise. In these centres of expertise, HAN students work on innovative projects. These centres of expertise also collaborate with institutes such as TNO and with leading Dutch universities of technology and European partner universities. This enables the level of content of the course to be continuously monitored. The content of this Masters course is based on our constant interactions with our industrial partners and our applied research focuses on their needs and interests.

Practice-based modules

In the 1st year of the Master in Engineering Systems, you follow practice-based modules. First you delve into the theory of the relevant module and then you put it into practice during minor projects, in which you work in small groups with other students.



'Graduates make the link between state-of-the-art technology and current practice. You have to look at what the customer wants and translate that into technology. Besides technological knowledge and skills, the programme also addresses personal development: when the students graduate they will be working in positions suited to someone with a Masters degree. We understand the organisational skills this requires and incorporate the development of those into the study programme.

Kea Bouwman-Jansen – Coordinator Masters course in Engineering Systems

1st semester

During the first semester, students of all five tracks follow the Systems Modelling Module. In this module you learn how to create a white box model of a real world process using the 4+1 step approach. You also take a second module within the track you have chosen. In addition, you do training that helps you develop the skills you need to work in a project team and conduct research, such as communication skills and research skills.

2nd semester

In the second semester you focus in more depth on your chosen track by following track-specific modules. Each module provides you with the necessary theoretical knowledge to complete the minor projects, where you work on a practical issue related to the topic.

Major Project

After completing all the modules including the minor projects, you are ready for the major project. Here you apply the principles of the course to a real-life industrial situation. In addition to using your technical aptitude, you prove your ability to manage a project and demonstrate your communication, reporting and presentation skills. The major project is completed in an industrial or research environment and takes 5 to 6 months. Students have previously carried out major projects at companies like Tatasteel, HyET, DAF, Ford, NXP Semiconductors and Alliander. You are also free to do your project at a company abroad.

International setting

The degree course has a strong international focus and directly reflects major international trends in the field, giving you an edge in the labour market. Moreover, you are part of an international classroom, which gives you the opportunity to study and work with students from all over the world. This enables you to learn and understand different cultures and opens up the possibilities of global relations for personal or career purposes.

Study load per week

Contact hours: 16 - 20
Study hours: 25

Master Engineering Systems

Track	1st semester	2nd semester	3rd semester
All tracks	**Module Systems Modelling** • Applied Physics • Introduction Modelling • Practice Modelling and Simulation • System Identification • Energy Based Modelling		**Major Project**
Automotive Systems	Choice of the following modules: **Module Advanced Vehicle Dynamics** or **Module Innovations in Powertrains**	**Module Applied Control** • Feedback Control • Digital Control • Apply Controller Strategies • Controller Implementation • Optimal Control **Module Advanced Vehicle Dynamics** or **Module Innovations in Powertrains** or **Module Intelligent Mobility** or **Module Big Data & Small Data**	
Control Systems	**Module Applied Control** • Feedback Control • Digital Control • Apply Controller Strategies • Controller Implementation • Optimal Control	**Module Big Data & Small Data** • System Identification • State and Parameter Estimation **Module Advanced Controller Design** • Robust Control • Optimal Control • Adaptive Control or **Module Distributed Systems** • System Architecture Theory • Capita Selecta	
Embedded Systems	**Module Applied Control** • Feedback Control • Digital Control • Apply Controller Strategies • Controller Implementation • Optimal Control	**Module Big Data & Small Data** • System Identification • State and Parameter Estimation **Module Distributed Systems** • System Architecture Theory • Capita Selecta	
Lean Engineering	**Module Lean Process Development** • Lean Operations Management • Product Architecture Mapping • Lean Product Development • Smart Connected Products • Factory Physics • Operations Strategy	**Module Applied Control** • Feedback Control • Digital Control • Apply Controller Strategies • Controller Implementation • Optimal Control **Module Lean Product Development** • Product Architecture Mapping • Lean Product Development • Smart Connected Products • Product Planning and Development	
Sustainable Energy	**Module Sustainable Energy Systems** • Sustainable Energy Technology • Energy System Integration • Capita Selecta	**Module Applied Control** • Feedback Control • Digital Control • Apply Controller Strategies • Controller Implementation • Optimal Control **Module Smart Power Supply** or **Module Big Data & Small Data**	

For more information
www.han.nl/mes

Master Engineering Systems

Automotive Systems

Although mobility is crucial to the global economy, it has also contributed to rising CO_2 emissions. We need creative solutions that combine mobility requirements with sustainable, social and technical developments. Finding these solutions requires highly-trained and innovative professionals. Study Automotive Systems at HAN University of Applied Sciences and become an authority on cleaner, safer and smarter vehicles.

The profession in a nutshell

As an automotive engineer you are involved in the design, development, production and evaluation of vehicle systems and components. With the further qualification of a Masters degree, you also possess valuable skills in applied research, communication and management. This enables you to lead projects, while balancing engineering, economical and commercial interests. Moreover, you have the technical expertise to evaluate and realise underlying control strategies and embedded electronic systems. The combination of these skills makes you highly employable in this industry.

Research

Students and lecturers of the Masters track in Automotive Systems participate in applied research projects for the HAN Automotive Research Group. These projects are motivated by developments in the automotive industry. One example is the electrification of the powertrain, a growing trend introduced with the Toyota Prius in 1997 and which has gained momentum and interest ever since. The research group has collaborated with various companies on research in this area, including the building and testing of prototype vehicles and test rigs. Another example is smart mobility. Making vehicles smarter can help prevent accidents caused by human error, for example through the development of active control concepts and advanced driver support. As a Masters student you get to work on these kinds of innovative research projects in collaboration with companies like Ford Research and DAF Trucks.

Career prospects

As a graduate of the Masters track in Automotive Systems you can work in professional engineering positions at internationally operating automotive companies and suppliers. In the border region between the Netherlands and Germany, for example, there are excellent career opportunities for automotive engineers. Moreover, a Masters degree shows that you have the skills to manage projects and conduct applied research, skills that are in high demand in this industry.

Our graduates get jobs as:

- Vehicle Application Engineer
- Product Engineer
- Calibration Engineer
- Advanced Research Engineer
- System/CAE Engineer

A good match?

- Are you passionate about automotive engineering?
- Do you want to broaden your career opportunities?
- Would you like to be the linking pin between different disciplines and management?
- Do you want to develop your leadership qualities?
- Are you keen to further develop your skills in intercultural teamwork?
- Are you analytical and do you enjoy doing applied research?

Is your answer to most questions YES? Then this study programme would be a good match for you.

For more information
www.han.nl/mas

For more information
www.han.nl/mese

Master Engineering Systems

Embedded Systems

The Masters track in Embedded Systems teaches you how to design and implement smart distributed systems that are low cost, energy efficient and can solve tasks cooperatively. You will learn to design and implement architectures for distributed embedded systems, innovation services and advanced algorithms to solve complex tasks. You also learn to model and validate complex non-linear systems with multiple inputs and outputs using UML and/or SysML, black box modelling and system identification. And you learn how to create a digital feedback controller for a linear physical system and apply control strategies.

The profession in a nutshell

As an embedded systems engineer you are involved in the design, development, production and evaluation of all kinds of intelligent systems and smart devices. You also possess valuable skills in applied research and project management. The content of this Masters course is based on constant interactions with our industrial partners. Our applied research focuses on their needs and their interests. This puts you at the forefront of innovation, giving you outstanding employment opportunities when you graduate.

Career prospects

As a graduate of the Masters course in Embedded Systems Engineering you will develop innovative electronic products using microcontrollers. In most cases, you will work in a team with other engineers and professionals from other disciplines. Using customer requirements and specifications, you will develop the electronic hardware and software that make up the high-tech products of the future.

Master Engineering Systems

Control Systems

The Masters track in Control Systems takes your engineering skills to the next level. It gives you a thorough understanding of the advanced regulating systems used in today's industry as well as cutting-edge techniques that are directly applicable in an industrial environment. The practical approach of this course is underpinned by the solid expertise of teaching staff and researchers.

The profession in a nutshell

Control systems engineers are involved in all processes from research, design, development and production right through to the evaluation of control systems. The additional qualification of a Masters degree in Engineering Systems at HAN enhances your professional skills so you can effectively manage projects, while balancing engineering, economic and commercial activities. Moreover, you have the technical knowledge to realise and evaluate all control strategies and embedded electronic systems.

Research

Students and staff of the Masters track in Control Systems participate in research conducted by the HAN Control Systems Research Group. One of the interesting automotive applications the research group is working on is self-driving (autonomous) cars. Students of both the HAN Masters tracks in Automotive Systems and Control Systems can participate in the development of these smart vehicles.

For more information
www.han.nl/mcse

Career prospects

With a Masters degree in Control Systems, you are qualified to work just about anywhere in the technical sector. Your expertise will be greatly valued in higher education, research institutes and R&D departments of companies and organisations across the globe. In fact, in the border region between the Netherlands and Germany, engineers with expertise in control systems are in high demand. Moreover, the additional qualification of a professional Masters degree shows you have the skills to manage projects and conduct applied research: a great advantage in this industry.

Our graduates get jobs as:

- Advanced Research Engineer
- Control Systems Engineer
- Product Engineer

A good match?

- Are you looking to take your engineering expertise to the next level?
- Are you interested in control systems and how to design and develop them?
- Do you want to broaden your career opportunities?
- Are you analytical and do you enjoy doing applied research?
- Do you want to develop your leadership qualities?

Is your answer to most questions YES? Then this study programme would be a good match for you.

Master Engineering Systems

Sustainable Energy

This Masters track deals with sustainable and renewable energy systems and how to apply these successfully to fulfil our future energy requirements. The programme has an applied technical approach, using engineering to deal with energy challenges. You explore how energy systems can work more efficiently. The focus here is on optimising energy systems across multiple pathways and scales, to increase the reliability, reduce the cost and minimise the environmental impacts of our energy systems.

Research

Research in the Masters track in Sustainable Energy focuses on the interface between energy and mobility, thus contributing to two key priorities at HAN: sustainable development and automotive applications. In the area of sustainable development, the research group works in close cooperation with the Sustainable Electrical Energy Centre of Expertise (SEECE). SEECE contributes to high-quality energy education and translates knowledge into commercially viable products and services through applied research and collaboration with regional companies in the energy business.

For more information
www.han.nl/mse

The profession in a nutshell

As a sustainable energy systems engineer, you will have an active role in the transition towards a sustainable energy system. You will work on the development of technology, models and smart control of sustainable systems for energy generation, storage or distribution at local, regional or (inter)national level.

Career prospects

You may be employed by SMEs, grid operators, energy providers or governments to develop innovative energy systems or play a role in maintaining the energy balance on an (inter)national scale.

Master Engineering Systems

Lean Engineering

The Masters track in Lean Engineering builds on your engineering skills and, at the same time, gives you the tools to improve design and development processes in manufacturing. With this unique skillset, you can make the link between the latest technological developments and a company's business processes. Expertise that is greatly needed in our rapidly changing world!

The profession in a nutshell

Technological developments allow us to improve products and manufacturing processes. But they also have a direct or indirect impact on various roles within a company. They can even affect the whole supply chain. This is where broadly skilled engineers come in. Engineers with a system view, who know how to develop products and processes using an integrated methodology. Lean Engineers are 'integrators'; they maintain a process view while developing and implementing improvements.

Career prospects

As a Lean Engineer you can work in a variety of positions, technical as well as managerial.

Our graduates can get jobs as:

- Product Engineer
- Industrial Engineer
- Project Manager
- Lean Facilitator
- R&D Manager
- Operations Manager
- Innovation Manager

A good match?

- Do you want to work on interdisciplinary projects?
- Are you interested in improving manufacturing processes and products?
- Are you interested in the link between technology and business development?
- Do you want to be an 'integrator' in your next job?
- Do you want to broaden your career opportunities?
- Are you analytical and do you enjoy doing applied research?
- Do you want to develop your leadership qualities?

Is your answer to most of these questions YES? Then this Masters track would be a good match for you.

For more information
www.han.nl/mle

Master

Molecular Life Sciences

Are you looking to broaden your career options in the field of bioscience? Would you like to gain professional experience while studying? Do you want a course that meets industry needs and has been rated ‘top programme’ for 6 years running? Then take your science career to the next level by studying Molecular Life Sciences at HAN University of Applied Sciences.

Location	Nijmegen
Duration	2 years (full-time)/ 3 years (part-time)
Degree	Master of Science
Course start	September

Keuzegids Masters TOP RATED PROGRAMME 2018

The profession in a nutshell

Biotechnology uses living systems and organisms to develop or make products for agriculture, medicine and industry. As an expert in this field you usually work in a lab setting in fundamental research and/or quality control. By raising your qualifications to a Masters level, you expand your job opportunities to include positions with higher-level responsibility. This means you have the skills to independently plan, organise and execute projects, devise experimental strategies and write scientific documents. Moreover, you are able to oversee the organisational and interpersonal aspects of your projects. These are valuable skills that employers look for.

Theory and practice

One of the hallmarks of education at HAN is the seamless integration of theory and practice. In this course, the theory programme is combined with an internship/workplace learning. This way, you continually work on projects that contribute to the actual development of bioscience products. For example, the discovery of new targets or drugs, the optimisation of protein production and purification, or the development and validation of diagnostic tests.

After studying the literature, you design strategies and experiments, write complete project proposals, analyse data, give scientific presentations and write project reports.
To help you reflect on your development in these areas, you have your own personal coach, who also stays in close contact with you during your internship.

Research

The Masters in Molecular Life Sciences is connected to HAN BioCentre, where students and staff conduct multidisciplinary research on actual issues from the professional field of biodiscovery. One such issue is finding alternatives to animal testing. HAN BioCentre is collaborating with the University of Oxford and other Dutch universities on the C. elegans screening system. C. elegans, a nematode, is genetically similar to humans, which means it serves as an ideal model for processes occurring in humans. Smart screening applications using this organism are therefore being developed as a viable alternative to animal testing. Another promising area within the field of biodiscovery is the microbial production of oil as an alternative to petroleum. HAN BioCentre is researching the use of microorganisms such as yeasts as promising sources of oil.

'This Masters course encourages students to think outside the box, to conceive wild ideas. Students are looking further, seeing more of the bigger picture. New knowledge keeps the whole organisation fresh.'

Maarten Witvliet – Project leader, Biosciences Center Boxmeer, MSD Animal Health

Practice-based modules

This professional Masters course is geared to the needs of companies and research organisations active in the Bioscience sector. It consists of seven modules in which you learn to plan and execute projects in various phases of applied research and product development. Modules 1-4 cover a range of contexts that are important in the different areas of applied research and product development in the Bioscience sector. Modules 5-7 are conducted as an internship (full-time students) or at your workplace (part-time students). Because your lecturers are actively involved in professional practice, they are abreast of all the latest developments in the field. As a result, they can effectively support you throughout your studies.

Internship

Modules 5-7 are conducted as an internship (full-time students), where you develop your skills in research and project management at a company. You do this by creating professional research products, for example a scientific report or an experimental design. On the project management side, you write up a project proposal for the internship company and develop your personal effectiveness by analysing your network and learning about situational leadership, for example. Students have previously carried out their internships at companies like MSD, Roche, or one of the small companies at Noviotech Campus or Pivot Park, or at the HAN BioCentre.

Masters project

In the final module you demonstrate your knowledge and skills in the form of a Masters project. This involves carrying out a project in applied research or product development for your internship company. You begin by writing a product plan and ensure that it is executed. Next you report on the results and reflect on the project execution. Finally, you defend your project execution and results in front of a board of examiners. Examples of past projects include developing diagnostic or prognostic tests, drug research, developing laboratory kits and protein production.

International setting

The course has a strong international focus. Firstly, you study and work on projects with students from a range of different countries, allowing you to learn about intercultural teamwork. Secondly, you complete your internship at an internationally oriented company, giving you first-hand experience of working in an international setting. And finally, HAN collaborates with the University of Florida (UF), allowing you to complete parts of their online Masters course in Pharmaceutical Chemistry. This provides you with intercultural competencies that are in high demand in industry.

Master Molecular Life Sciences

Funded by Dutch government

The Dutch government recently granted funding for this programme on account of its uniqueness and high quality. As an EU/EEA student, you can therefore benefit from lower tuition fees.

Career prospects

With this Masters degree you can work in different areas of the Bioscience sector, such as pharmaceuticals, personal health care, diagnostics and the food and feed industry. Our graduates also work in universities, hospitals and private research institutes. A professional Masters degree gives you the opportunity to apply for jobs with more responsibility and opens doors to new challenges.

Our graduates get jobs as:

- Project Leader
- Lab Manager
- Researcher

If this Masters course has motivated you to delve even deeper into applied research, you can always follow in the footsteps of many past graduates and further your career with a PhD.

A good match?

- Do you have a Bachelors degree in molecular life sciences, biotechnology or something similar?
- Are you looking for more knowledge, skills and responsibility?
- Are you interested in both the science and project management aspects of bioscience projects?
- Would you like to translate fundamental knowledge into practical applications, such as drugs or diagnostics?

Is your answer to most questions YES? Then this study programme would be a good match for you.

Study load per week

Contact hours: 8
Workplace learning: 24
Study hours: 8

Graduation percentage

90% of all students graduate within 2.5 years

Course overview

Module 1: Fundamentals

- Molecular Biology
- Cell Biology
- Biochemistry
- Gene Technology
- Statistics
- Using Databases
- Reading Scientific Articles

Module 2: Drug Development

- Molecular Aspects of Cancer Development
- Various Targets and Drugs
- Assay Development
- Pharmacology
- Toxicology
- Statistics
- Bio-informatics
- Drug Registration
- Structure Elucidation Analysis

Module 3: Vaccines and Diagnostics

- Immunology
- Infectious Diseases
- Vaccine Development
- Diagnostic Testing
- Validation
- Statistics

Module 4: Production of Biomolecules

- Production Strains
- Fermentation Technology
- Downstream Processing (DSP)
- Bio-analysis Methods
- Metabolic Engineering
- Gene Annotation
- Good Manufacturing Practice (GMP)

Module 5: Research and Product Development Skills

- Research Skills
- Scientific Writing and Presenting
- Design of Experiments
- Quality Assurance and Control
- Business Development

Module 6: Project Management

- Professional Conduct
- Interpersonal Effectiveness
- Project Planning and Control
- Professional Identity

Module 7: Masters Project

For more information
www.han.nl/mmls

Admission and application

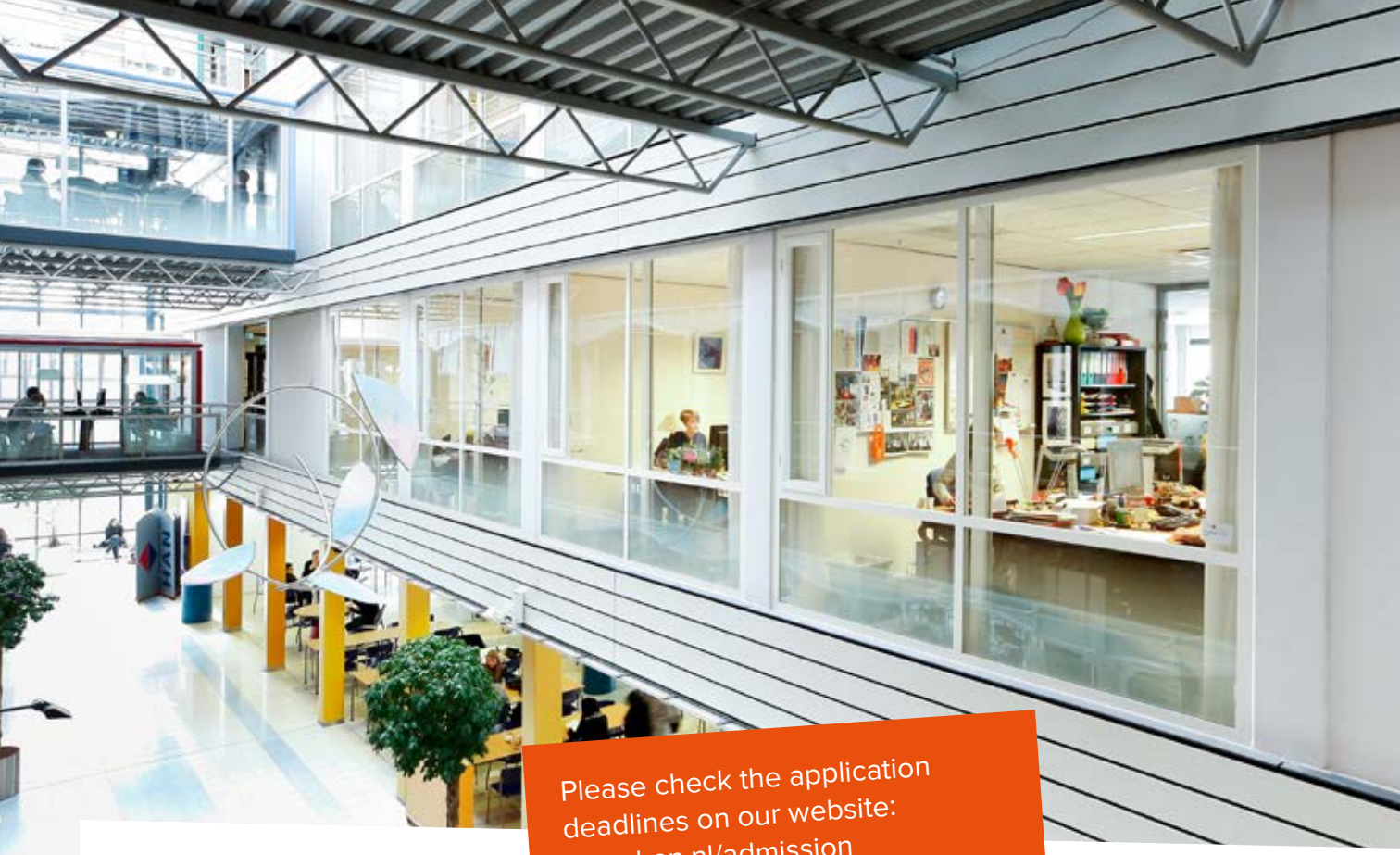
For both the Bachelors and Masters courses at HAN University of Applied Sciences, there are two main admission requirements: prior education and level of English fluency.

Prior education requirements: Bachelors

Bachelor	Required secondary education subjects	Diploma of secondary education	Fluency in English
Communication	Sufficient grade in: Mathematics	Examples of diplomas: • Havo/Vwo/MBO (level 4) • International Baccalaureate • Abitur or Fachhoch-schulreife • High school, A or B grades • Sekolah Menegah Atas (SMA) • GCSEs + A(S)-levels • Bang Tot Nghiep Pho Thong Trung Hoc	• An IELTS score of at least 6.0 or • A TOEFL score of at least 80 (Internet based) or • A Cambridge Certificate in Advanced English (CAE) or Proficiency of English (CPE)
International Business			
Automotive Engineering	Sufficient grades in: Mathematics and Physics		
Electrical and Electronic Engineering			
Mechanical Engineering			
Chemistry	Sufficient grades in: Biology, Chemistry and Mathematics		
Life Sciences			

Prior education requirements: Masters

Master	Required Bachelors degree	Additional requirements	Fluency in English
Engineering Systems	Bachelors degree in Automotive Engineering, Chemical Engineering, Electrical Engineering, Mechanical Engineering or a related technical discipline	Minimum GPA of 2.8 out of 4.0	• An IELTS score of at least 6.0 or • A TOEFL score of at least 80 (Internet based) or • A Cambridge Certificate in Advanced English (CAE) or Proficiency of English (CPE)
Molecular Life Sciences	Bachelors degree in: Life Sciences, Biochemistry, Biotechnology or comparable disciplines	Laboratory research experience of at least 5 months	• An IELTS score of at least 6.5 or equivalent



Please check the application deadlines on our website: www.han.nl/admission

Application procedure: Bachelors and Masters

Please note!
Due to the visa procedure, non-EU students should apply as soon as possible.

Step 1 – Enrol through Studielink

Start your enrolment by applying through Studielink, the central Dutch online application tool for higher education in the Netherlands. HAN University of Applied Sciences will automatically receive your application from Studielink.
For instructions on how to enrol, please go to **www.han.nl/admission** > Application.

Step 2 – Send required documents

Within a few days of receiving your application, the HAN Admissions Office will ask you to forward certain documents that are needed to process your application.

Step 3 - Course Selection Check for Bachelors

If you applied for a Bachelors course, you are required to do a Course Selection Check. The main goal of this check is to determine how well the chosen degree course suits your interests. The Course Selection Check consists of a (skype) call resulting in a recommendation from HAN.

Step 4 – Acceptance to the course

Bachelors courses
The Board of Admissions will review your application and documents, based on the admission requirements of HAN University of Applied Sciences. If necessary, you will be contacted for additional information or for an interview. The Board of Admissions will let you know whether you have been accepted into the course of your choice.

Masters courses
The relevant course coordinator will review your application and documents, based on the admission requirements of HAN University of Applied Sciences. You might be contacted for additional information and an interview. Following this, you will be informed whether you have been accepted into the course of your choice.

Step 5 – Becoming a student

You are considered an official student of HAN University of Applied Sciences once you have received the acceptance letter and paid the tuition fees. Then, you will be ready to start! You can check your application status online by visiting **www.han.nl/myapplication**.

Financial information

Tuition fees

To check the tuition fees that apply to you, please visit our website: **www.han.nl/tuitionfees**

Immigration

Non-EU/EEA students need a residence permit to study in the Netherlands. Permits are arranged through the Dutch Immigration and Naturalisation service (IND). HAN University of Applied Sciences applies for the visa and residence permit on the behalf of the student. To start this procedure, HAN needs to receive the following from the non-EU/EEA student:

- payment of tuition fees for the 1st year of studies
- payment of administrative fees
- proof of sufficient financial means of at least € 10,590

Detailed information about the immigration procedure, including deadlines for the immigration application and the exact amount for proof of sufficient financial means can be found at **www.han.nl/visa**.

The procedure above does not apply to EU/EEA students, as they do not need a residence permit to stay in the Netherlands during their studies.

Orientation year

The Dutch government wants to offer all Dutch higher education graduates the opportunity to search for a job in the Netherlands. EU/EER graduates are free to work in the Netherlands and do not have to apply for a work permit. Non-EU/EER graduates can apply for the 'orientation year highly educated persons' residence permit within 3 years of graduation. During this orientation year you are allowed to work in the Netherlands without restrictions. More information can be found on the website of the Dutch Immigration and Naturalisation service: **www.ind.nl**.

Average monthly costs

The average cost of living for a student in the Netherlands is between € 800 and € 1,100 a month. This amount is needed to cover daily expenses, to pay the rent and for tuition fees. Approximately one third goes toward housing. Food might cost you another third. Fortunately, hot meals are offered at reasonable prices at our campuses in Arnhem and Nijmegen. In the city centre there are also pubs and cafés where you can get a good meal at a reasonable price. However, the cheapest way to eat is to cook for yourself. The remaining third of your money goes toward books, travel and other expenses.

Student grant

If you are from an EU or EEA member state, you could be entitled to a student grant from the Dutch government. For detailed information, visit the website of DUO: **www.duo.nl**.

Scholarships

Personal scholarships can be obtained from various organisations in the Netherlands or in your home country. For an overview of the available scholarships to study in the Netherlands, you can explore Nuffic's Grantfinder at **www.grantfinder.nl**.

HAN University of Applied Sciences offers the HAN Excellence Scholarship Programme in collaboration with the Dutch Ministry of Education and Science. These scholarships are granted to international students enrolling for a full-time course at HAN University of Applied Sciences. For detailed information about the criteria visit **www.han.nl/scholarships**.

Social media and activities

The international student body at HAN University of Applied Sciences forms a close-knit yet inclusive community. They make their presence known on campus with their energetic, fun and creative social events. Events that they organize throughout the academic year. Usually, not a week goes by without an organised student event – either on one of the campuses or in the cafés and cultural venues across Nijmegen and Arnhem.

Student associations

Bachelors students can join various associations such as the International Student Association (ISA) at Arnhem Business School or the Student Council. ISA organises ski trips, visits to European cities and various social events like the well-known Boat Gala at the end of each academic year. The Student Council holds regular meetings with the course coordinators to discuss the finer points about the education offered at HAN.

Strong ties with alumni

At HAN University of Applied Sciences we go to great lengths to maintain strong ties with our alumni. We are interested in their careers, as well as their thoughts and comments about the courses we offer. This kind of information is valuable to us. Why? We are constantly fine-tuning our courses to fit current professional practices. Next to that, it is our goal to enable contact between our alumni and our current student body, creating both an exchange of knowledge and opening up opportunities.

HAN has its own alumni networks and LinkedIn groups where former students can register and connect with each other.

Introduction for new students

New Bachelors students are invited to participate in the introduction week or an introduction day. This is designed to help students adjust to their new surroundings. During the programme, students are given information about everything from university regulations to lecture timetables. They also get to meet some of their lecturers and get a crash-course in HAN student life.

www.hanintro.nl

New Masters students are given a warm welcome on their first day at HAN. They will meet their fellow students and receive practical information on topics like lecture timetables, textbooks and software. After this introduction, students are ready to embark on an enjoyable and successful academic career at HAN!

www.arnhembusinessschool.com
www.facebook.com/arnhembusinessschool
www.facebook.com/HANmasterscourses
www.youtube.com/HANUAS
www.youtube.com/arnhembusinessschool
www.instagram.com/arnhembusinessschool
www.linkedin.com/school/arnhem-business-school

Housing and facilities

Student housing

The HAN Housing Office can help you with accommodation as a student at HAN. HAN Housing Office provides furnished rooms for international students of HAN University of Applied Sciences for a maximum of one academic year. We have over 300 rooms/apartments on offer at different locations in the city. The HAN Housing Office Facebook page gives you an impression of the different types of accommodation available. Please check our website for more information on rental prices and how to apply: **www.han.nl/hanhousingoffice**.

Study and leisure

HAN's facilities provide you with a diverse study and leisure environment. Use your HANaccount to gain access to a number of IT facilities, including wireless internet throughout our campuses. If sports is your thing, check out the different student sports associations in Arnhem and Nijmegen. Hot meals, snacks and sweets as well as beverages to satisfy any taste can be bought in the cafeterias spread around our campuses.

Study centres

HAN's study centres are facilities to be proud of. We offer five of these centres: two in Arnhem and three in Nijmegen. Each has work spaces with computers, quiet study spaces, group work areas and facilities for working with laptops. On our website you can even check the available seats per study centre, so that you can quickly find a spot to study. And by using HAN's search engine HANQuest, you can easily search through library catalogues and databases to find the resources you need. In the study centres, you can research both paper and digital sources, work on an assignment or presentation in peace and quiet or edit movies using a virtual cutting machine.

The HAN study centres are more than just libraries with multimedia facilities. The aim of these centres is to provide access to high quality and professional information to students to facilitate their study activities. This is achieved in two ways: by creating a physical and virtual learning environment that enriches students' learning environment, and by providing advice and training for students to help them become critical and skilful in finding relevant academic sources.

Take a tour of our campuses!
www.han.nl/english/virtualtour

IT

Part of your study will take place online. With your HANaccount you can log in to your mailbox and, using the HAN-Scholar virtual learning environment, you can exchange information, assignments and results with your fellow students and lecturers. You can access HAN-Scholar, HAN's virtual learning environment (VLO), from home and on campus. Have discussions and chat with other students, hand in assignments and check your grades. Lecturers can post their announcements and new assignments here as well.

When you use HAN-Scholar, you are always directly connected to HAN. Of course, this does not mean you have to do everything online. You also have plenty of time during lectures and tutorials to discuss things with your lecturers and fellow students in person. It's the best of both worlds!

HAN Insite: our Intranet

Using Insite, HAN's intranet, you can stay up to date with the latest news about your course. You can place announcements and advertisements on the virtual bulletin board. Use Insite to find information on just about everything, from courses to timetables and more.

Study with disabilities

If you have a disability or are chronically ill, you might need additional facilities to support you in your studies. HAN offers several services to make sure your study environment fits your needs. If you are dyslexic, for example, you might get more time to complete your exams. Inform your study career coach about your situation so that the necessary support can be made available to you. This will ensure you make a good start.

Sports

If sports are important to you, you are in for a treat in Arnhem and Nijmegen. There are any number of possibilities for filling your free time with sports activities – and often at a reduced student rate. For instance, with a USG sports card you have access to all the sports associations at the University Sports Centre Gymnasion in Nijmegen. In both Arnhem and Nijmegen you will find numerous student sport associations. This will help you take your mind off studying for a bit, and you might make some new friends along the way!

HAN's facilities provide you with a broad and generous study environment!

Information for parents

Dutch culture

If your child is considering going abroad for their studies, the first step is usually to determine which country is the best study destination for him or her. When thinking about the Netherlands, most people picture things like cheese, windmills and wooden shoes. Fortunately, there is more to the Dutch culture than this. The Netherlands is a non-hierarchical society where the general belief is that every person is equal. This is reflected, for instance, in how decisions are made within a group: everyone's opinion is heard so that all agree on the outcome.

The country's history of welcoming foreigners into the country has created a melting pot of different cultures. This results in an open-mindedness and tolerance towards foreigners as well as respect for an individual's freedom to live life as he or she chooses. While this mindset leaves room for people to be themselves, it also requires a certain proactivity if you want to get to know the Dutch. And even though the Dutch are generally very social, they are usually not that spontaneous and often organise their social activities in advance. As a result, punctuality is highly valued in the Netherlands. With all this planning and structuring, it seems that little is left to the unexpected. However, the Dutch do have an adventurous mind and are daring in business, which requires flexibility.

Helping your child make the right choice

As a parent you play an important role in deciding which course is the best match for your son or daughter. You can guide them in the decision-making process by ensuring they make an informed decision. For example, help them gather information by reading brochures and visiting websites of the relevant courses. Talk with your child about which aspects of the course they like or dislike as this makes it easier for them to form an opinion.

Once you have narrowed it down to a few options, you might want to visit an open day at a university or attend one of the education fairs in your own country. Students, staff and alumni from HAN University of Applied Sciences go abroad on a regular basis to represent our university at these events. We can also schedule a meeting through Skype or telephone to provide you with more information, if you are not able to meet us in person. Visit our website to see when we are coming to an education fair in your country: **www.han.nl/meetus**.

Getting ready to apply

In the Netherlands we believe everybody has a right to education, which is why most institutions do not have extremely high admission requirements. This might make it seem easy to earn a degree in the Netherlands. However, once students are accepted into a course they have to prove themselves and make sure they show sufficient study progress.
To see the detailed admission requirements per course, as well as application deadlines, visit **www.han.nl/admission**.

Bachelors at HAN

A Bachelors course at a Dutch university of applied sciences takes four years to complete. During the first year, known as the propaedeutic phase, your child will acquire basic skills and knowledge and discover his or her talents within the chosen field of study.
In the second and third year students deepen their knowledge and work more independently. A work placement is often included in this part of the course as well, providing students with practical experience at a real company. In the fourth year, students conclude their course with a graduation assignment in which they demonstrate the knowledge and competences they have acquired during their years of study.

Credits and study load

At HAN University of Applied Sciences, students have to obtain a certain number of credits (ECTS) in order to proceed to their second year of study. To obtain credits, they need to pass their exams and group projects. One credit corresponds to a study load of 28 hours and students have to obtain 60 credits in one academic year. If students have not gained sufficient credits by the end of the first year, they receive binding negative study advice and have to quit the course.

Grading system

The Dutch grading system ranges from 1 (very poor) to 10 (outstanding). The grades 1-3 are hardly ever awarded and 9 and 10 are very rare. The table below explains the Dutch grading system and how grades are awarded at HAN University of Applied Sciences.

Dutch grades	Letter grades	Definition	Successful students awarded this grade
8.0 – 10.0	A	Excellent	10%
7.0 – 7.9	B	Very good	25%
6.4 – 6.9	C	Good	30%
5.8 – 6.3	C	Satisfactory	25%
5.5 – 5.7	E	Pass	10%

Study coaching and counselling

To ensure our students achieve the best possible results, HAN offers study coaching throughout all years of study. This way, we take good care of both the academic development and the well-being of our students. Study coaching thus involves supporting students in finding effective ways to study, making choices regarding their future career and in their personal development.

At HAN all students are assigned a study and career coach, a lecturer who is the first point of contact for students when they have questions about their study programme or personal matters. Besides the study and career coach, we offer a counsellor for questions about financial matters or for help with complaint and appeal procedures. Students can also contact a confidential counsellor if they need to discuss more serious personal matters.

HAN on the map

HAN University of Applied Sciences is situated in the eastern part of the Netherlands. It's just a few kilometres from the German border, but also within easy distance from Amsterdam, London, Paris, Brussels and Berlin. The Netherlands is truly at the heart of Europe! Although the country is small, flat and densely populated, it has a bustling economy and a relatively liberal standing. The east of the country offers a typical Dutch landscape with charming scenery like wide rivers, bridges, dikes and polders. The Netherlands is known for its cultural diversity and relaxed cosmopolitan lifestyle. You can easily observe this on a sunny day after your classes while enjoying a drink with friends at one of the many outdoor cafés.

The campuses of HAN University of Applied Sciences are spread over the twin cities of Arnhem and Nijmegen

Living in Arnhem

The city of Arnhem offers a variety of eye-catching attractions, from fashion to history, museums to pubs, and concert halls to nightclubs. As the capital city of the Gelderland province, Arnhem enjoys a rich and eventful history which can be found in a number of monumental buildings scattered throughout the city. Arnhem is located at the very centre of the province, sprouting up out of lovely green surroundings with the Veluwe national park on one side and the lush floodplain area on the other.

Living in Nijmegen

Nijmegen is the oldest town in the Netherlands and a beautiful, old university city. It is surrounded by woodlands, castles and polders. Just walk a few minutes in any direction and you can enjoy nature and history at its best. Nijmegen has just about everything a student could wish for: museums, theatres, lively cafés, excellent sports facilities and a trendy nightlife.

Partner universities

Argentina

Buenos Aires	Universidad de Salvador

Australia

Adelaide	University of South Australia
Brisbane	Griffith University
Melbourne	La Trobe University
Melbourne	Victoria University
Perth	Curtin University of Technology
Sydney	University of Sydney
Wollongong	University of Wollongong

Austria

Dornbirn	Fachhochschule Vorarlberg
Graz	FH Joanneum – University of Applied Sciences
Innsbruck	FH Gesundheit
Linz	Padagogische Hochschule Oberösterreich
Polten	FH St. Polten
Salzbrug	Padagogische Hochschule Salzburg
Wels	Upper Austria University of Applied Sciences
Wien	FH Campus Wien
Wien	Padagogische Hochschule Wien
Wiener Neustadt	Fachhochschule Wiener Neustadt

Belgium

Antwerpen	Karel de Grote Hogeschool
Antwerpen	Thomas More Antwerpen
Antwerpen	Universiteit van Antwerpen
Brugge	VIVES University College Brugge-Oostende
Brussel	Odisee vzw
Brussel	Haute Ecole Francisco Ferrer
Brussel	Haute Ecole 'Groupe ICHEC – ISC Saint-Louis – ISFSC'
Diepenbeek	Katholieke Hogeschool Limburg
Geel	Thomas More Kempen
Gent	Arteveldehogeschool
Gent	Hogeschool Gent
Gent	Universiteit Gent
Kortrijk	Howest, de Hogeschool WestVlaanderen
Kortrijk	VIVES University College Kortrijk-Roeselare-Tielt-Torhout
Leuven	UCCL; Katholieke Hogeschool Leuven
Leuven	KU Leuven
Liège	HELMo – Haute Ecole Libre Mosane

Brazil

São Paulo	Universidade de Sao Paulo

Canada

Antigonish	Saint Francis Xavier University
Edmonton	NAIT North Alberta Institute of Technology
Edmonton	Grant MacEwan University
Halifax	Dalhousie University
Halifax	Mount Saint Vincent University
Oakville	Sheridan Institute of Technology & Advanced Learning
St. John's	Memorial University of Newfoundland
Windsor	University of Windsor

Chile

Santiago	Universidad Andres Bello
Santiago	Universidad de Chile

China

Hong Kong	Educational University of Hong Kong
Shanghai	Shanghai University of Finance and Economics
Shanghai	Shanghai University of International Business and Economics
Xiamen	Xiamen University

Colombia

Bogotá	Universidad del Rosario

Czech Republic

Pardubice	Univerzita Pardubice
Praha	Ceske Vysoke Uceni Technicke v Praze, Czech Technical University
Praha	Vysoka Skola Ekonomicka v Praze, University of Economics

Denmark

Århus	Arhus Kobmandsskole / Business Academy Aarhus
Århus	Arhus Universitet
København	Professionshojskolen UCC
København	Professionshojskolen Metropol, Metropolitan University College
Odense	Syddansk Universitet, University of Southern Denmark
Risskov	Via University College
Sorø	University College Zealand
Vejle	University College Lillebalt

Estonia

Tartu	Tartu Ulikool, University of Tartu
Tallinn	Tallinna Ulikool, Talinn University

Finland

Helsinki	Metropolia Ammattikorkeakoulu, Helsinki Metropolia University of Applied Sciences
Helsinki	Helsingin Yliopisto, University of Helsinki
Helsinki	HAAGA-HELIA Ammattikorkeakoulu
Jyväskylä	Jyvaskylan Yliopisto, University of Jyvaskyla
Jyväskylä	Jyvaskylan Ammattikorkeakoulu, JAMK University of Applied Sciences
Kajaani	Kajaanin Ammattikorkeakoulu, Kajaani University of Applied Sciences
Kauniainen	Humanistinen Ammattikorkeakoulu / HUMAK
Mikkeli	Mikkelin Ammattikorkeakoulu
Tampere	Tampereen Ammattikorkeakoulu, TAMK
Turku	Turun Ammattikorkeakoulu – Abo Yrkeshogskola
Vantaa	Laurea-Ammattikorkeakoulu

France

Angers	Ecole Superieure des Sciences Commerciales d'Angers (ESSCA)
Besançon	Universite de Franche-Comte
Bordeaux	Universite de Bordeaux
Caen	Universite de Caen Basse-Normandie
Cergy-Pontoise	Universite de Cergy-Pontoise
Chambery & Annecy	Universite de Savoie
Créteil	Universite Paris Est Creteil – Val de Marne
Dijon	Universite de Bourgogne
La Rochelle	Universite de la Rochelle
Levallois-Perret	ESTACA – Ecole Superieure des Techniques Aeronautiques et de Construction Automobile
Lille	Universite Catholique de Lille, IESEG School of Management
Lyon	Universite Jean Moulin Lyon 3
Lyon	Universite Catholique de Lyon, ESDES School of Management
Marseille	Aix-Marseille Universite
Montpellier	Ecole Superieure de Commerce (ESC) de Montpellier
Montpellier	Universite de Montpellier
Mont-Saint-Aignan	NEOMA Business School
Orléans	Universite d'Orleans
Paris	Ecole Superieure du Commerce Exterieur
Paris	Institut des Hautes Etudes Economiques et Commerciales (INSEEC) Paris
Paris	Institut Superieur de Reeducation Psychomotricite et Relaxation
Paris	Sup de Pub: INSEEC School of Communications
Poitiers	Universite de Poitiers
Toulouse	Universite de Toulouse II – Le Mirail

Germany

Berlin	Katholische Hochschule fur Sozialwesen Berlin
Berlin	Hochschule fur Technik und Wirtschaft Berlin
Bochum	Evangelische Fachhochschule Rheinland-Westfalen-Lippe
Chemnitz	Technische Universitat Chemnitz
Dortmund	Fachhochschule Dortmund
Dresden	Hochschule fur Technik und Wirtschaft Dresden (FH)
Duisburg & Essen	Universitat Duisburg-Essen
Freiburg	Padagogische Hochschule Freiburg
Hannover	Hochschule Hannover
Hannover	Gottfried Wilhelm Leibniz Universitat Hannover
Heidelberg	Ruprecht-Karls-Universitat Heidelberg
Karlsruhe	Hochschule Karlsruhe
Kleve	Hochschule Rhein-Waal
Köln	Fachhochschule Koln
Leipzig	Universitat Leipzig
Ludwigsburg	Padagogische Hochschule Ludwigsburg
Mannheim	Hochschule Mannheim
Mainz	Johannes Gutenberg Universität Mainz
München	Hochschule Munchen
Münster	Westfalische Wilhelms-Universitat Munster
Münster & Steinfurt	Fachhochschule Munster
Nordhausen	Fachhochschule Nordhausen
Nürtingen	Hochschule fur Kunsttherapie Nurtingen
Paderborn	Universitat Paderborn
Potsdam	Universitat Potsdam
Reutlingen	Hochschule Reutlingen
Sankt Augustin	Hochschule Bonn-Rhein-Sieg
Trier	Universitat Trier
Weingarten	Padagogische Hochschule Weingarten
Wildau	Technische Fachhochschule Wildau
Worms	Hochschule Worms
Würzburg	University of Würzburg

Greece

Arta	Technologiko Ekpaideutiko Idrima (TEI) Epirou
Ioannina	Panepistimio Ioanninon
Patras	Panepistimio Patron

Hungary

Budapest	ESSCA d'Angers (Budapest campus)
Györ	Szechenyi Istvan Egyetem
Pécs	Pecsi Tudomanyegyetem University of Pecs

India

Agra	Dayalbagh Educational Institute
Bangalore	Christ University
Chennai	SRM University

Indonesia

Bekasi	President University
Jakarta	Binus University
Yogyakarta	Universitas Gadjah Mada
Yogyakarta	Universitas Sanata Dharma

Ireland

Cork	University College Cork
Dublin	Dublin City University – Institute of Education
Dublin	Dublin Institute of Technology
Limerick	Mary Immaculate College
Maynooth, Co. Kildare	Maynooth University
Tallaght	Institute of Technology Tallaght
Tralee	Institute of Technology Tralee

Italy

Bologna	Universita degli Studi di Bologna 'Alma Mater Studiorum'
Castellanza	Universita Carlo Cattaneo – LIUC
Milan	Universita Cattolica del Sacro Cuore
Perugia	Universita degli Studi di Perugia

Japan

Akita	Akita International University

Kazakhstan

Almaty	Kazakhstan Institute of Management, Economics and Strategic Research

Kyrgyzstan

Bishkek	American University of Central Asia

Latvia

Riga	Rīgas Stradiņa Universitāte
Riga	Latvijas Universitate
Riga	Rigas Starptautiska Ekonomikas un Biznesa Administracijas Augstskola

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Lithuania

Kaunas	Kauno Kolegija
Vilnius	Vilniaus Kolegija
Vilnius	Vilniaus Universiteto Tarptautinio verslo mokykla, Vilnius University, Business School

Mexico

Guanajuato	Universidad de Guanajuato
Monterrey	Instituto Tecnologico y de Estudios Superiores de Monterrey (ITESM)

Morocco

Marrakech	Academie Regionale d'Education et de Formation de Marrakech Tensift Al Haouz

Netherlands Antilles

Curaçao	University of Curaçao

New Zealand

Auckland	Unitec New Zealand

Norway

Bergen	Western Norway University of Applied Sciences
Elverum	Inland Norway University of Applied Sciences
Kristiansand	Universitetet i Agder
Molde	Hogskolen i Molde
Oslo	Hogskolen i Oslo og Akershus
Oslo	Diakonhjemmets Hogskole, Diakonhjemmet University College
Oslo	Norges Idrettshogskole, Norwegian School of Sport Sciences
Stavanger	Universitetet I Stavanger

Peru

Lima	Universidad Peruana de Ciencias Aplicadas

Philippines

Cebu City	University of San Carlos
Manila	Ateneo de Manila University

Poland

Krakow	Pedagogical University of Cracow
Krosnie	State Higher Vocational School in Krosno
Lublin	Uniwersytet Marii CurieSklodowskiej
Poznan	Uniwersytet Ekonomiczny w Poznaniu, The Poznan University of Business and Economics
Warsaw	Jozef Pilsudski University of Physical Education in Warsaw

Portugal

Beja	Instituto Politecnico de Beja
Coimbra	University of Coimbra
Estoril	Escola Superior de Saude Do Alcoitao
Lisboa	Instituto Politecnico de Lisboa
Lisboa	Escola Superior de Saude da Cruz Vermelha Portuguesa
Lisboa, Beiras, Braga & Porto	Universidade Catolica Portuguesa
Porto	Instituto Politecnico do Porto
Porto	Escola Superior de Enfermagem do Porto
Setúbal	Instituto Politecnico de Setubal

Romania

Bucureşti	Academia de Studii Economice din Bucureşti

Russia

Moscow	Plekhanov Russian University of Economics

Slovakia

Nitra	Univerzita Konstantina Filozofa v Nitre

Slovenia

Ljubljana	Univerza v Ljubljani, Universityof Ljubljana

South Africa

Bellville	University of the Western Cape
Bellville	Cape Peninsula University of Technology
Port Elizabeth	Nelson Mandela Metropolitan University
Pretoria	University of Pretoria

South-Korea

Cheon-An	Republic of-KoreaTech
Seoul	Republic of-Chung-Ang University
Suwon	Ajou University

Spain

Alicante	Universidad de Alicante
Barcelona	Universitat de Barcelona
Bilbao	Universidad de Deusto
Castellón	Universidad Jaume I
Córdoba	Universidad Loyola Andalusia
Granada	Universidad de Granada
Madrid	Universidad Pontificia Comillas, Madrid
Madrid	Universidad Complutense de Madrid
Madrid	Universidad Carlos III de Madrid
Málaga	Universidad de Malaga
Mataró	Escola Universitaria del Maresme
Mondragón	Mondragon Unibertsitatea
Sevilla	Universidad Pablo de Olavide
Sevilla	Universidad de Sevilla
Valencia	Universidad de Valencia
Vic	Universitat de VIC, Universitat Central de Catalunya

Sweden

Eskilstuna & Västerås	Mälardalen University
Göteborg	Chalmers tekniska hogskola
Göteborg	Goteborgs universitet
Kalmar & Växjö	Linneuniversitetet
Karlstad	Karlstads universitet
Linköping	Linkopings universitet
Malmö	Malmo hogskola
Stockholm	Karolinska Institutet
Umeå	Umea universitet

Switzerland

Brugg	FHNW Fachhochschule Nordwestschweiz
Kreuzlingen	Padagogische Hochschule Thurgau
Lausanne	Haute Ecole Pedagogique du Canton de Vaud
Zürich	Zurcher Hochschule fur Angewandte Wissenschaften
Zürich	Padagogische Hochschule Zurich

Taiwan

Kaohsiung	National Sun Yat-Sen University (NSYSU)

Thailand

Pathum Thani	Rangsit University

Turkey

Antalya	Akdeniz Universitesi
Istanbul	İstanbul Medipol Universitesi
Istanbul	Yeditepe Universitesi
Izmir	Dokuz Eylul Universitesi
Mugla	Mugla Universitesi

United Kingdom

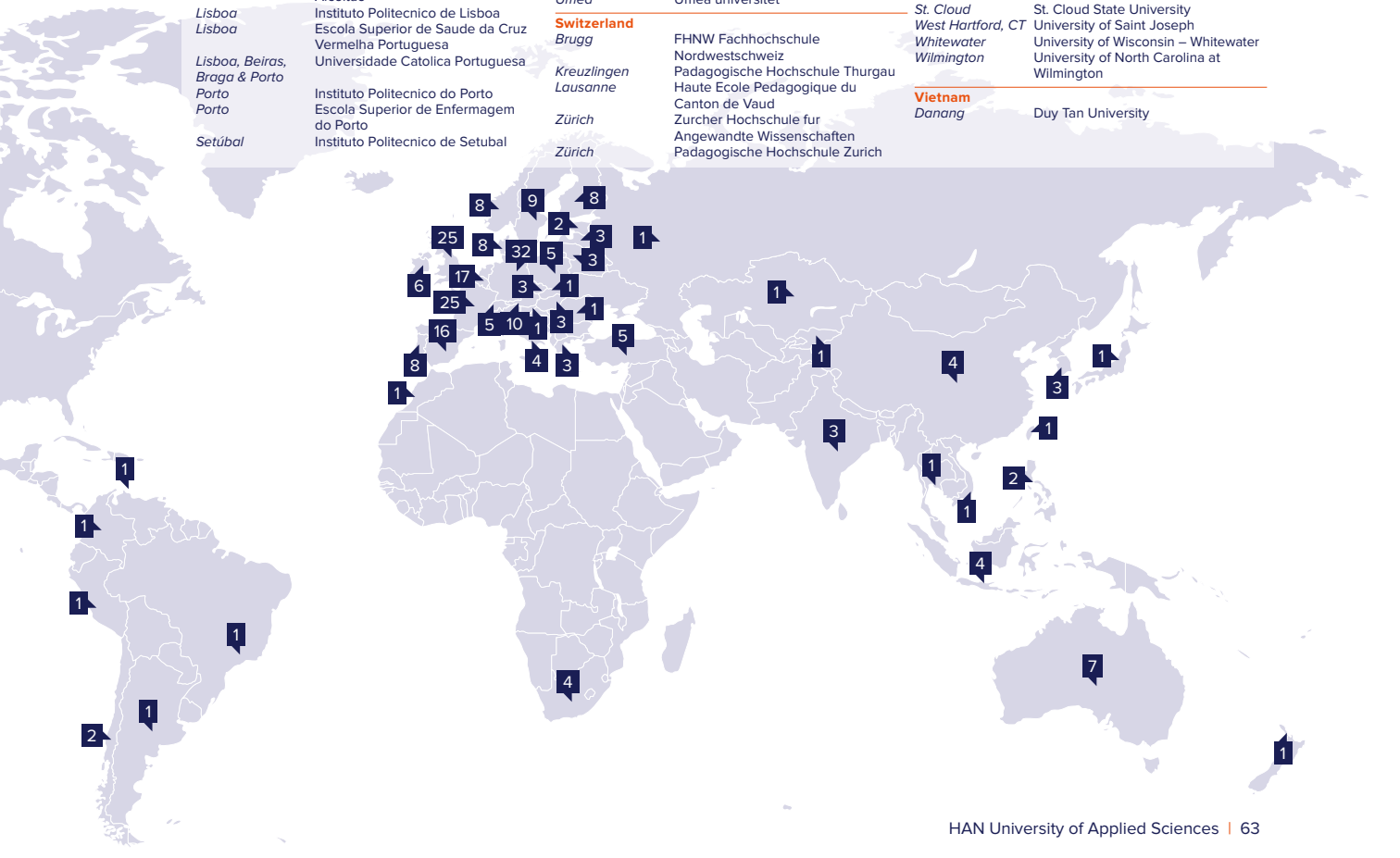
Belfast	Stranmillis University College
Belfast	St Mary's University College
Birmingham	Birmingham City University
Birmingham	University College Birmingham
Birmingham	Newman University
Brighton	University of Brighton
Cheltenham	University of Gloucestershire
Coventry	Coventry University
Derby	University of Derby
Dundee	University of Dundee
Glasgow	Glasgow Caledonian University
Hatfield	University of Hertfordshire
Huddersfield	University of Huddersfield
Hull	University of Hull
Kingston-Upon-Thames	Kingston University
Lancaster	University of Cumbria
Leicester	De Montfort University
Liverpool	Liverpool Hope University
London	University of Westminster
Newcastle-Upon-Tyne	Northumbria University, Newcastle
Northampton	The University of Northampton
Oxford	University of Oxford
Poole	Bournemouth University
Portsmouth	University of Portsmouth
Worcester	University of Worcester

United States

Ada	Ohio Northern University
Albany	University at Albany, The State University of New York
Farmville	Longwood University
Flagstaff	Northern Arizona University
Fort Worth	Texas Christian University
Greensboro	University of North Carolina at Greensboro
Greenville	East Carolina University
Laredo, TX	Texas A&M International University
Los Angeles	California State University LA
Mankato	Minnesota State University, Mankato
San Francisco	San Francisco State University
Stout	University of Wisconsin – Stout
St. Cloud	St. Cloud State University
West Hartford, CT	University of Saint Joseph
Whitewater	University of Wisconsin – Whitewater
Wilmington	University of North Carolina at Wilmington

Vietnam

Danang	Duy Tan University



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