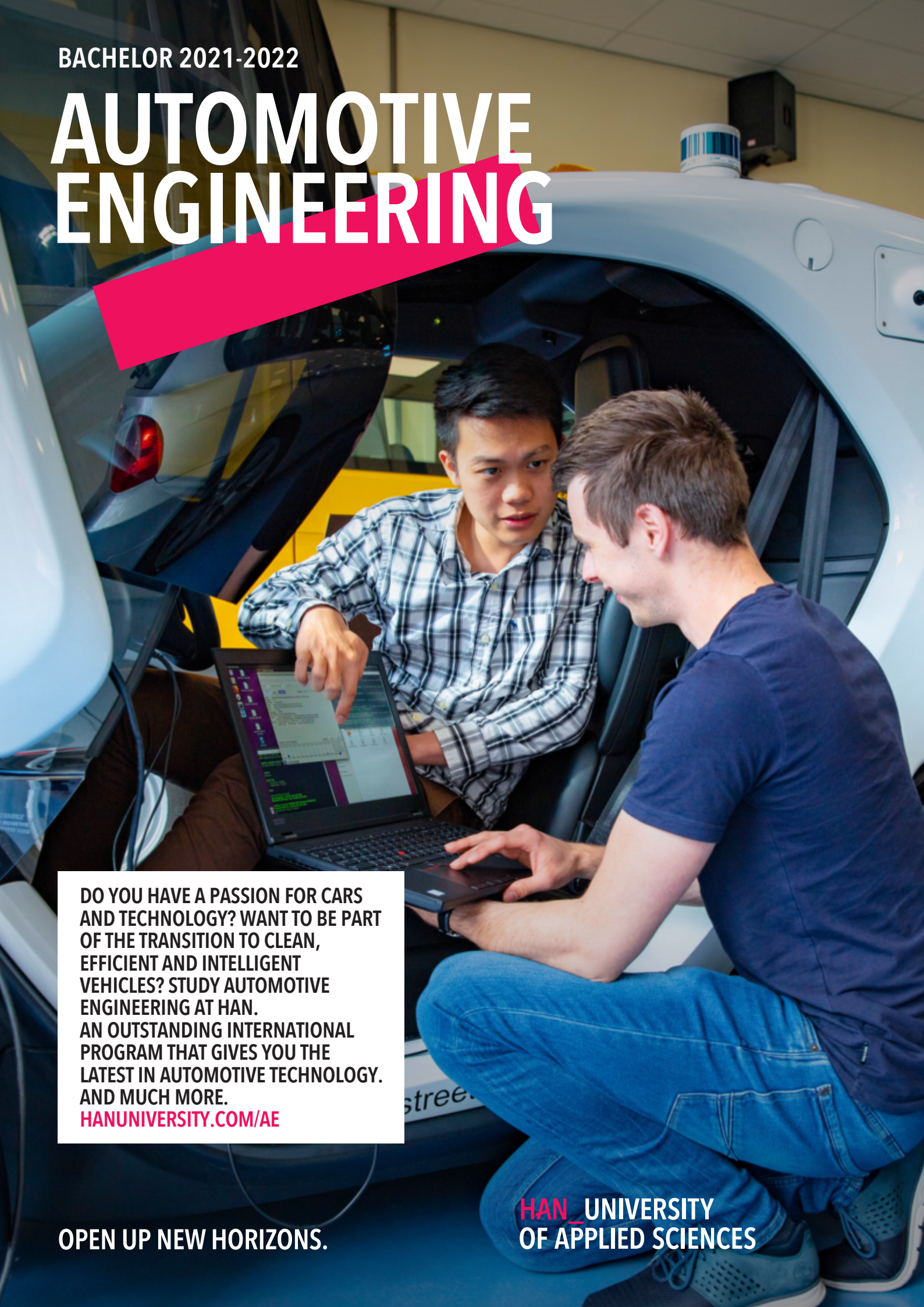
BACHELOR 2021-2022

AUTOMOTIVE ENGINEERING



DO YOU HAVE A PASSION FOR CARS AND TECHNOLOGY? WANT TO BE PART OF THE TRANSITION TO CLEAN, EFFICIENT AND INTELLIGENT VEHICLES? STUDY AUTOMOTIVE ENGINEERING AT HAN.
AN OUTSTANDING INTERNATIONAL PROGRAM THAT GIVES YOU THE LATEST IN AUTOMOTIVE TECHNOLOGY.
AND MUCH MORE.
HANUNIVERSITY.COM/AE

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY OF APPLIED SCIENCES

PROFESSION_

As a graduate of Automotive Engineering at HAN, you're a versatile professional. You have specific automotive engineering skills. Like designing, testing, managing, producing and maintaining vehicles. At the same time, you can relate technology to other aspects of business. To marketing, management and business economics. This makes you the ideal linking pin between a wide range of disciplines.

Where you might work? Anywhere in the international automotive industry. You could be active in R&D, manufacturing or sales. Keen to explore the opportunities? HAN Automotive organizes an annual career day where you can meet up with over 40 different companies!

JOBS

With this degree, you can get a job as:

- Vehicle Development/Test Engineer
- Engine Development/Test Engineer
- Designer
- Product Manager
- Warranty Reclaim Manager
- Customer Relations Manager

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?

YES? Then the program is a good match for you!

PROGRAM IN BRIEF

THEORY AND PRACTICE

At HAN University of Applied Sciences, theory and practice are closely linked. In the automotive engineering program, you're constantly challenged to apply the theory to practical problems. Like deciding on the best kind of engine for a kart. Electric, combustion or hybrid?

Throughout the degree you work on team projects in groups of 6-8 students. Together you investigate future mobility concepts. The HAN Formula Student Team is one example. First you build a formula race car. Then you compete against teams from all over the world. Another example is the HAN Eco-marathon, where you develop an energy-efficient vehicle.

SPECIALIZATION

The first year of the program gives you a solid foundation in all the disciplines within automotive engineering. In your second year you start to specialize. You can choose from various fields of expertise:

- ➜ Business Management
- ➜ Manufacturing
- ➜ Powertrain
- ➜ Structural Design
- ➜ Vehicle Technology
- ➜ Vehicle Electronics and Control

PROGRAM OVERVIEW

1st year

- Mathematics
- Mechanics & CAD
- Thermos & Flow
- Saving Energy in a Vehicle
- Project: Tuning 4 Business
- Project: Fun to Drive & Efficient
- Making it Sell
- Build My Company
- Controlling a Spark Ignition Engine
- Calculating & Packaging Components
- Designing Electric-Hydraulics
- Analyzing Vehicle Systems
- Controlling a Compressed Ignition Engine
- Presenting like a Pro

2nd year

You choose to specialize in one of the fields of expertise:

- Business Management
- Manufacturing
- Powertrain
- Structural Design
- Vehicle Technology
- Vehicle Electronics and Control

3rd year

- Continue your chosen specialization
- Internship

4th year

- Minor
- Graduation Assignment

BUILD YOUR PROFESSIONAL EXPERIENCE

In your 3rd year you work as an intern. Where? At an internationally oriented company. What about DAF, VDL, BMW or Delphi? This exposes you to new information and working practices in your field of study. Before you start, you follow a preparation program on all aspects of the internship.

In the 4th year you face your most challenging step: the graduation project. Here you investigate an automotive issue for a company. The topic depends on the specialization you chose earlier. Where you'll go? To an international automobile company of your choice, like Volvo, DAF or Aston Martin.

WHY STUDY AUTOMOTIVE ENGINEERING AT HAN?

70+ years' experience
HAN Automotive Institute has been educating automotive engineers for over 70 years.

Exciting projects
Design, build, test and race in the Formula Student and Eco Marathon competitions.

Career day
Each year the program organizes a career day. Over 40 companies give info on internships, graduation projects and jobs.

Master option
Want to continue studying after your bachelor degree? HAN offers the Master in Engineering Systems.

High employment rate
96% of graduates find a job within 1 year.

MASTERS DEGREE?

Enjoy studying and doing research? Why not continue with a master degree after your BSc? There are lots of options in the Netherlands and abroad. You'll also have direct access into HAN's Master of Engineering Systems. Specialize in automotive systems, embedded systems or control systems.

LAB FACILITIES

HAN Automotive Institute has modern, well-equipped labs. Labs where you can develop, test and improve vehicles. Take the hydrogen lab. Where you test equipment that allows vehicles to run on hydrogen. Or the research lab. Where you can use one of the many test environments.

Most labs are fitted with data-acquisition equipment. Developed at HAN, this equipment is based on LabVIEW, a graphic programming language. You'll have everything you need to test and develop the mobility solutions of the future.

ADMISSION REQUIREMENTS

→ Diploma of secondary education with sufficient scores in Mathematics and Physics
→ Fluency in English:
- IELTS 6.0 or higher
- TOEFL 80 (internet-based)
- Cambridge Certificate (CAE or CPE)

hanuniversity.com/admission

CREDITS AND STUDY LOAD

HAN uses the European Credit Transfer System (ECTS). It's the standard for higher education across Europe. When you pass your exams or assignments, you receive credits. Credits are based on study load:
→ 1 ECTS = 28 hours of study

How many credits do you get in 1 academic year?
→ 60 ECTS credits = 1,680 hours of study

What if you don't gain all 60 credits in the 1st year? Because you failed some subjects or fell behind? That's OK. You can miss some credits and catch up later.

Each program sets its own minimum number of required credits for the 1st year. For Automotive Engineering that's 45. What if you fall below that number? Then you can't continue the program.

"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 specializations based on your interests. This is complemented by various projects that give us a chance to implement theoretical knowledge and provide an insight into teamwork and management.
ROHAN PATIL / INDIAN STUDENT

BACHELOR 2021-2022

ELECTRICAL AND ELECTRONIC ENGINEERING

WOULD YOU LIKE TO USE SCIENCE AND TECHNOLOGY TO IMPROVE THE WORLD WE LIVE IN? BE PART OF THE TRANSITION TO SUSTAINABLE ENERGY? MAKE MACHINES AND DEVICES MORE USER-FRIENDLY? CHOOSE ELECTRICAL AND ELECTRONIC ENGINEERING AT HAN.
HANUNIVERSITY.COM/EEE

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY OF APPLIED SCIENCES

PROFESSION_

Electrical and Electronic Engineering has many practical applications. Think of healthcare, the automotive industry or sustainable energy.
As a specialist in Embedded Systems (ES), you design, build and test intelligent systems and smart devices. As a specialist in Industrial and Power Systems (IPS), you design smart solutions in industrial automation.

In this profession you often work in a team with other engineers and people from other disciplines. Where you'll work? In the commercial or public sector. Possible industries? Product manufacturing. Electro-technical companies. Oil and gas processing. Food processing. The energy sector. The list goes on.

JOBS

With this degree, you can get a job as:

- Embedded Software/Hardware Developer
- Lead Engineer
- Advisor
- Team Leader
- Industrial Automation Developer
- Power Engineer

A GOOD MATCH?

- Are you interested in science and technology?
- 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 how to create safe and sustainable designs?

YES? Then the program is a good match for you!

PROGRAM IN BRIEF

THEORY AND PRACTICE

At HAN theory and practice are inseparable. Right from the start of the program you put theory into practice in loads of innovative projects. What's more, you have the freedom to choose the projects you like. HAN works in close collaboration with the Dutch energy world. What that means for you? You get to work on real projects for real companies. 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)

SPECIALIZATION

At the end of the 1st semester, you choose from two specializations. Embedded Systems (ES) is about digital technology and microcontrollers. You design, build and test intelligent systems and smart devices. Technologies like Google Glass, smart fridges and interactive games. Industrial and Power Systems (IPS) is about designing smart solutions in industrial automation. Anything from waste incineration to beer brewing. Or designing motion control systems. Also, learn how electricity is generated, transported and distributed.

PROGRAM OVERVIEW

1st year

- Mathematics
- Electrical Circuits
- C Programming
- Logic Circuits
- Professional Skills
- Workshops: 8-bit Microcontrollers
- Workshops: Electronics
- 32-bit Microcontrollers (ES)
- C++ Programming (ES)
- Introduction to Electrical Machines (IPS)

2nd year

- Control Systems
- Data Communication
- Electronics
- Operating Systems (ES)
- Software Engineering with UML (ES)
- Digital System Design (ES)
- Power Electronics (IPS)
- Electrical Machines (IPS)
- Distribution and Low Voltage Grid (IPS)

3rd year

- Internship
- Digital Signal Processing
- Internet of Things (ES)
- Databases (ES)
- Systems Modelling (IPS)
- Servo Control (IPS)
- Control Systems (IPS)

4th year

- Minor
- Graduation Assignment

BUILD YOUR PROFESSIONAL EXPERIENCE

Professional experience is important to future employers. That's why you go on an internship in your 3rd year. And get to tackle a real issue for a company in your 4th year (graduation project). Where you'll go? HAN works closely with a range of international companies. They regularly offer internships and graduation projects. TenneT, a large electricity transmission system operator. Prodrive, an electronic and mechatronic solutions firm. Océ, a printer firm (part of Canon). Liander, the largest grid operator in the Netherlands. And many smaller, innovative companies in the region.

WHY STUDY ELECTRICAL AND ELECTRONIC ENGINEERING AT HAN?

Collaboration with industry
HAN collaborates with top firms in the energy and electrical engineering sector.

Relevant specializations
Specializations based on industry needs: Embedded Systems and Industrial & Power Systems.

Further studies
Easy transition to HAN's Master in Engineering Systems with 5 different specializations.

Solar boat
Adventurous? Join the HAN solar boat team with students from other disciplines. Participate in international races.

Research center
Work on innovative projects at HAN's Research Center for Sustainable Electrical Energy.

Wide choice of projects
We offer a range of different projects. Sometimes students even propose their own projects. Work on a topic that truly inspires you.

MASTER DEGREE?

Want to continue your studies? So you can work in a position with more responsibility? With your BSc from HAN, it's a smooth transition into HAN's Master in Engineering Systems. Or expand your international experience even further. Choose a master program in either electrical engineering or embedded systems. Such programs are offered all over the world.

LAB FACILITIES

Studying at HAN gives you access to state-of-the-art lab facilities. The program even has its very own workshop. Here you find measuring tables and modern measuring instruments like signal generators and oscilloscopes. Need materials for your project? Electronic components and development kits? No problem. You can find it all in the workshop. Need more specialized equipment? HAN has other workshops where you can work with electronics, electric drives, control systems, embedded systems and Linux.

ADMISSION REQUIREMENTS

→ Diploma of secondary education with sufficient scores in Mathematics and Physics
→ Fluency in English:
- IELTS 6.0 or higher
- TOEFL 80 (internet-based)
- Cambridge Certificate (CAE or CPE)

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CREDITS AND STUDY LOAD

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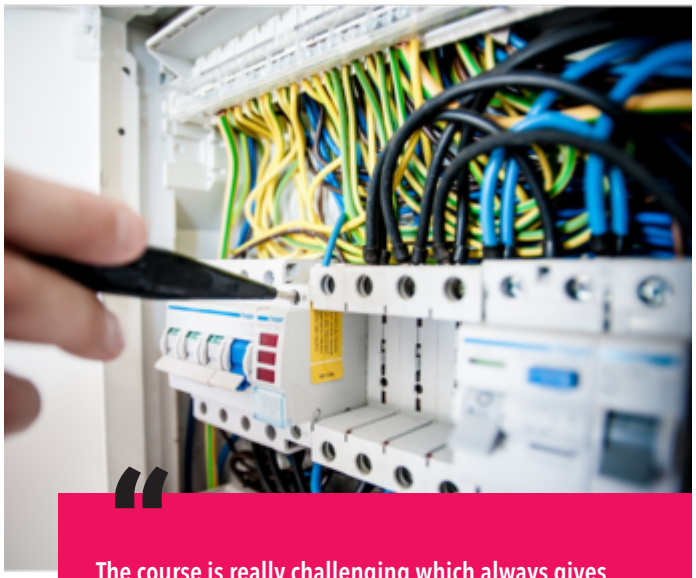
How many credits do you get in 1 academic year?
→ 60 ECTS credits = 1,680 hours of study

What if you don't gain all 60 credits in the 1st year? Because you failed some subjects or fell behind? That's OK. You can miss some credits and catch up later.

Each program sets its own minimum number of required credits for the 1st year. For Electrical and Electronic Engineering that's 45. What if you fall below that number? Then you can't continue the program.



The course is really challenging which always gives motivation to learn more. My interest in technology has only grown even more 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.

SHAHEER NAWAZ / BRITISH STUDENT

BACHELOR 2021-2022

MECHANICAL ENGINEERING

WOULD YOU LIKE TO DESIGN AND CONSTRUCT THE MACHINES OF THE FUTURE? IMPROVE THEM SO THEY ARE MORE ENERGY EFFICIENT? OR SO THEY CAN RUN ON RENEWABLE ENERGY? SIGN UP FOR MECHANICAL ENGINEERING AT HAN AND KICK-START YOUR CAREER.
HANUNIVERSITY.COM/ME

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY OF APPLIED SCIENCES

PROFESSION_

This program focuses on two main fields of application. Mechanical engineering and energy systems engineering. An example of the first is machine design. Here you use technology to increase machine performance parameters. In anything from huge cranes to the smallest micromechanical applications in healthcare. Energy systems engineering is about designing energy systems to run on the smallest amount of energy possible. Or to run on renewable energy. Apart from these main fields? There's also steering and control, cost efficient design and human-machine interfaces. In short, you're choosing a broad, multidisciplinary field.

JOBS

With this degree, you can get a job as:

- Constructional Engineer
- Product Designer
- Energy Systems Engineer
- Product and Service Engineer
- Project Leader
- Production Manager

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?

YES? Then the program is a good match for you!

PROGRAM IN BRIEF

THEORY AND PRACTICE

Applying theory in practice is crucial for two reasons. First, it helps you understand complex ideas. Second, it gives you valuable practical experience. That's why already in the 1st year you start working on projects in small groups. Take the principles of construction. First you learn the theory. Then you put it into practice. How? By creating a windmill, a wind-driven vehicle or a healthcare application. Later in the program you work on more complex, real-life projects in engineering companies. Projects with an international dimension. That could be a heat pump and thermal energy system design. An industrial transport application. Or a machine redesign.

PROGRAM OVERVIEW

1st year

- Mathematics
- Statics, Dynamics, Mechanics of Materials
- Constructional Components
- Materials Science and Engineering
- Production Techniques
- 3D Computer Aided Design
- Project Work, Workshop Production
- Thermodynamics, Fluid dynamics
- Energy Systems Engineering
- Sustainable Energy Techniques
- Electrical Engineering
- Programmable Logic Controllers
- Research Skills
- Professional Skills

2nd year

- Dynamics
- Additive Manufacturing
- Constructional Principles
- Design and Analysis Techniques
- Finite Elements Method and Motion
- Motors and Drives
- PLC and LabVIEW Programming
- Advanced Mathematics
- Law and Regulations
- Combustion Principles
- Air Conditioning Techniques
- Solar and Wind Energy
- Systems Modelling
- Multidisciplinary Projects

3rd year

- Modeling and Simulation
- Integral Design
- Design Techniques for a Production Facility
- Smart Production, Internet of Things
- Capita Selecta Mechanical Engineering
- Product Optimization
- Professional Skills
- Internship

4th year

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

BUILD YOUR PROFESSIONAL EXPERIENCE

Professional experience is key to your success on the job market. That's why you go on an internship in your 3rd year. You also get to tackle a real issue for a company in your 4th year: your graduation project. Where you'll go? HAN works closely with a range of international companies. They regularly offer internships and graduation projects. Companies like Marel, Mars, Festo, DAF, Scania, NXP, ASML, Besi, Nuon, Heinz-Kraft and Bosch. Or get a position at one of our research groups.

WHY STUDY MECHANICAL ENGINEERING AT HAN?

Extensive project work
Put theory into practice in loads of exciting mechanical engineering projects. Work in teams with other disciplines. Get intensive coaching.

Master option
Want to continue studying after your bachelor degree? HAN offers the Master in Engineering Systems.

Leading companies
Graduates get jobs at leading international companies, like Bosch, Philips and Heinz-Kraft.

Professional learning community
Sharing knowledge. Learning from each other. And from the professionals.

MASTERS DEGREE?

Do you like studying? Keen to get a job with more responsibility? Why not earn your master degree at HAN as well? Choose one of the 5 tracks of the Master in Engineering Systems:

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

LAB FACILITIES

At HAN you have access to a fully-equipped workshop with extensive lab facilities. Practice essential techniques, like bending, cutting and welding. Or more advanced techniques, like CNC machining and 3D-printing. Want to conduct a stress-strain test? Measure roughness? Do a structure analysis? Use the materials lab. Need access to pneumatics and software for industrial automation applications? Use the control systems lab. Want to take measurements on cooling or heating systems? Go to the energy systems lab.

ADMISSION REQUIREMENTS

→ Diploma of secondary education with sufficient scores in Mathematics and Physics
→ Fluency in English:

- IELTS 6.0 or higher
- TOEFL 80 (internet-based)
- Cambridge Certificate (CAE or CPE)

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CREDITS AND STUDY LOAD

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→ 1 ECTS = 28 hours of study

How many credits do you get in 1 academic year?
→ 60 ECTS credits = 1,680 hours of study

What if you don't gain all 60 credits in the 1st year? Because you failed some subjects or fell behind? That's OK. You can miss some credits and catch up later.

Each program sets its own minimum number of required credits for the 1st year. For Mechanical Engineering that's 45. What if you fall below that number? Then you can't continue the program.

BACHELOR 2021-2022

CHEMISTRY

WOULD YOU LIKE TO MAKE A DIFFERENCE THROUGH SCIENCE? TEST FOR CONTAMINANTS IN THE ENVIRONMENT? MONITOR THE COMPOSITION OF THE FOOD WE EAT? SIGN UP FOR CHEMISTRY AT HAN AND GET A SOLID START TO A REWARDING CAREER.
HANUNIVERSITY.COM/CHEMISTRY

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY
OF APPLIED SCIENCES

PROFESSION_

With a Chemistry degree your place of work will be the laboratory. Your focus? Analytical chemistry. In other words, the composition of materials and how their chemistry changes under certain conditions. Scientists in this field analyze and develop new products. Think of food, medicines and plastics.

There are lots of jobs in analytical chemistry in the Netherlands. You could work in the pharmaceutical or food industry. Companies like Shell or Akzo-Nobel. Or at a hospital or environmental agency. Or what about an independent research institute like the Netherlands Food and Consumer Product Safety Authority?

JOBS

With this degree, you can get a job as:

- Research Assistant
- Chemical Technician
- Junior Project Leader

A GOOD MATCH?

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

YES? Then the program is a good match for you!

ASTP TALENT PROGRAM

Show your chemistry talent in the 1st year and join the Analytical Sciences Talent Program! The ASTP runs for 3 years alongside your regular studies. You get to interact with leading companies and research institutes. Work in the most advanced laboratories. Selected? Then you receive a scholarship.

PROGRAM IN BRIEF

THEORY AND PRACTICE

Theory and practice are inseparable at HAN. You get a solid theoretical foundation in all the current research topics in chemistry. At the same time, you dive straight into practice in the lab. Here you work together with your classmates on projects. Projects that deal with real problems in the chemistry field. HAN collaborates with companies and research institutes in the Netherlands and abroad, so you get to work on the most innovative research projects. Build up valuable experience. Boost your problem-solving skills. Become a great team player. These are important qualities that employers look for.

SPECIALIZATION

In your 3rd year you specialize in analytical chemistry. You work on projects for companies and focus on practice-based research.

PROGRAM OVERVIEW

1st year

- Mathematics
- Laboratory Calculations
- Biology
- General Chemistry
- Laboratory Practice
- Organic Chemistry
- Polymer Chemistry
- Chemical Bonds in Organic Chemistry
- Thermodynamics

2nd year

Analytical Chemistry - Biomolecules:

- Spectroscopy
- Statistics
- Biomolecules

Analytical & Organic Chemistry:

- Chromatography
- Organic Chemistry
- Electrochemistry
- Statistics

Organic Chemistry - Pheromones:

- Organic Chemistry
- Kinetics
- NMR/IR

Polymer Chemistry - Biobased Materials:

- Polymer Chemistry
- Fermentation
- Green Chemistry

3rd year

- Intership or Minor

Specialization in Analytical Chemistry:

- Quality Assurance
- Method Development

4th year

- Internship or Minor
- Graduation Project

BUILD YOUR PROFESSIONAL EXPERIENCE

Professional experience in the lab is an important part of this chemistry degree. That's why you do an internship for 1 semester in your 3rd or 4th year. Before you start, you complete a thorough preparation program. Once you're there, you get support from a HAN lecturer and a company coach.

Want to gain experience designing and conducting your very own research project? That's what your graduation project is all about. When? In the final semester of your 4th year. Your topic? A major issue in analytical chemistry.

Where can you do your internship and graduation project? At a company, research institute or hospital in the Netherlands or abroad. Go to Merck/MSD, Synthon, Biopharmaceuticals, Charles Rivers, Mead Johnson, AKZO, or Teijin Aramid. Or to a research department at Uppsala University (Sweden) or the University of Miami (USA).

WHY STUDY CHEMISTRY AT HAN?

Analytical Chemistry
Chemistry at HAN focuses on analytical chemistry. A great field because there are more jobs than graduates.

Small groups
Work in small groups and classes. Lots of personal attention from lecturers and tutors. And plenty of interaction in class.

Innovative talent program
Ambitious? Join the Analytical Sciences Talent Program with extra hours of study and a scholarship.

Focus on lab work
Learn chemistry at HAN and spend lots of time working in the lab.

MASTERS DEGREE?

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

LAB FACILITIES

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

ADMISSION REQUIREMENTS

→ Diploma of secondary education with sufficient scores in Biology, Chemistry and Mathematics
→ Fluency in English:
- IELTS 6.0 or higher
- TOEFL 80 or higher (internet-based)
- Cambridge Certificate (CAE or CPE)

hanuniversity.com/admission

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BACHELOR 2021-2022

LIFE SCIENCES

WOULD YOU LIKE TO USE SCIENCE TO IMPROVE THE WORLD WE LIVE IN? DEVELOP SOLUTIONS FOR WORLD FOOD SHORTAGES? WORK ON CURES FOR CANCER? STUDY LIFE SCIENCES AT HAN AND GET A SOLID FOOTING IN THIS EXCITING FIELD.
HANUNIVERSITY.COM/LIFESCIENCES

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY
OF APPLIED SCIENCES

PROFESSION_

Life Sciences at HAN gives you the skills and understanding to perform lab research. That could be fundamental research or quality control. You can specialize 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.

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? Researching diseases. Designing new drugs. Checking product quality.

JOBS

With this degree, you can get a job as:

- Research Assistant
- Assay Development Scientist
- Junior Project Leader/Lab Manager
- Technical Sales Specialist

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?

YES? Then the program is a good match for you!

HAN BIOCENTER

This degree is linked to the HAN BioCenter. The research focus here is biodiscovery. So everything from the discovery, analysis and production to the application of biomolecules. Which means things like proteins and metabolites. Work on projects with classmates and staff. Find answers to actual questions from industry. Discover!

PROGRAM IN BRIEF

THEORY AND PRACTICE

Theory and practice are closely linked at HAN. Your lecturers guide you through all the current research topics in life sciences. At the same time, you dive straight into practice in the lab. In fact, half your time is spent doing practical work. That means working in groups of 4-6 students on projects. Projects that deal with real problems in the field of life sciences.

HAN works closely with companies and research institutes in the Netherlands and abroad. What does that mean for you? You get to work on cutting-edge research projects. Gain invaluable experience. And build on your problem-solving and communication skills.

SPECIALIZATION

At the end of the 2nd year, you're ready to choose your specialization. Your options are:

- ➜ Molecular Plant Biology
- ➜ Biomedical Research
- ➜ Biotechnology

PROGRAM OVERVIEW

1st year

- Cell Biology
- Molecular Biology
- Biochemistry
- Microbiology
- Chemistry
- Laboratory Calculations
- Bioinformatics
- Mathematics
- One-day mini internship

2nd year

- Molecular and Biochemical Research
- Interaction between Human, Plant and Microorganisms

3rd year

- Internship or Elective

Choose your specialization in:

- Biomedical Research
- Molecular Plant Biology
- Biotechnology

4th year

In the 4th year you follow an elective or do an internship, depending on the path you choose in the 3rd year. You will finalize your studies with a graduation project.

BUILD YOUR PROFESSIONAL EXPERIENCE

An internship in your 3rd year builds your professional knowledge and skills. Where you'll go? A research institute, teaching hospital or company. In the Netherlands or abroad. Some of our former students went to KeyGene N.V., an agricultural biotech company. And the University of Bonn in Germany.

In your 4th year you get hands-on experience at designing and carrying out your very own research project. A project focusing on a major issue in life sciences. Where? At a company or research institute. Past students went to Merck/MSD, Synthon Biopharmaceuticals and Dundee University in Scotland.

WHY STUDY LIFE SCIENCES AT HAN?

Top students
Life Sciences students at HAN are top performers. They even win national awards.

Master or PhD
Many Life Sciences students go on to successfully complete a Master or even a PhD.

Project-based
Spend loads of time working on life science projects in the lab.

Lecturers with know-how
Lecturers have worked as researchers in hospitals, universities and companies.

MASTER DEGREE?

Ambitious? Keen to further your education? Want a position with more responsibility? With a BSc from HAN, it's a smooth transition into HAN's Master in Molecular Life Sciences. Or you could opt for another master program like Biomolecular Sciences. Such programs are offered all over the world.

LAB FACILITIES

HAN has all the basic lab facilities and more. Take the specialized microbiological, plant and biochemical labs. Here you can research DNA, RNA and protein in different organisms. How do you make the cells visible? Using light microscopy, fluorescent microscopy and electron microscopy. You can also do research on skin cancer. With real-time PCR apparatus, a high-performance plate reader and a flow cytometer. And use our fermentation lab. Ferment bacteria, fungi and yeasts and create your own biological products!

ADMISSION REQUIREMENTS

→ Diploma of secondary education with sufficient scores in Biology, Chemistry and Mathematics
→ Fluency in English:
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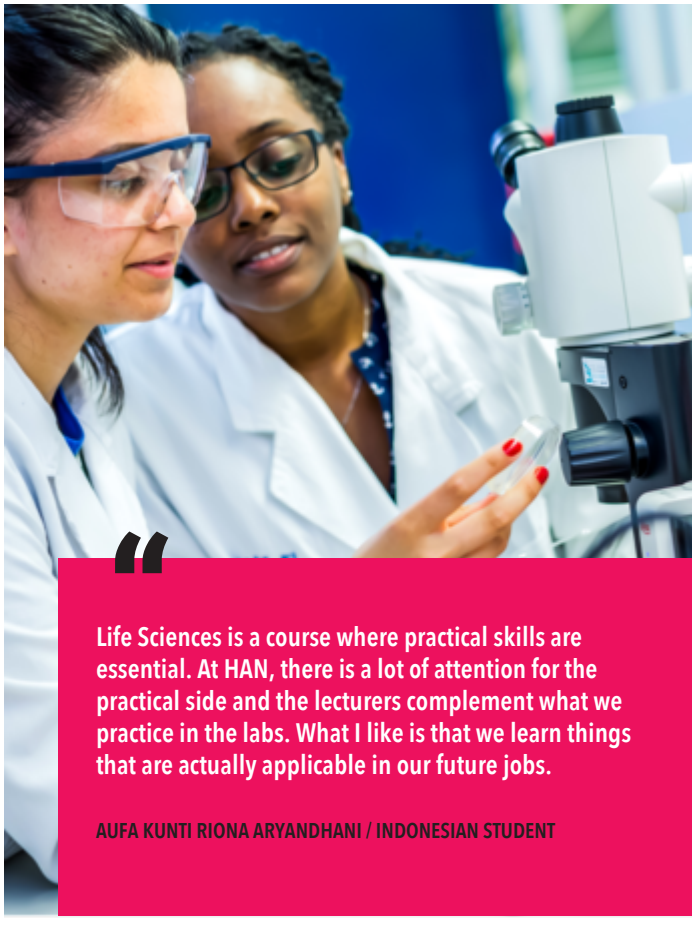
→ 1 ECTS credit = 28 hours of study

How many credits do you get in 1 academic year?
→ 60 ECTS credits = 1,680 hours of study

What if you don't gain all 60 credits in the 1st year? Because you failed some subjects or fell behind? That's OK. You can miss some credits and catch up later.

Each program sets its own minimum number of required credits for the 1st year. For Life Sciences this is 45 ECTS. What if you fall below that number? Then you can't continue the program.



"Life Sciences is a course where practical skills are essential. At HAN, there is a lot of attention for the practical side and the lecturers complement what we practice in the labs. What I like is that we learn things that are actually applicable in our future jobs.

AUFA KUNTI RIONA ARYANDHANI / INDONESIAN STUDENT

BACHELOR 2021-2022

COMMUNICATION

DESIGN AN ADVERTISING CAMPAIGN FOR A NEW FASHION BRAND. DEVELOP A COMMUNICATION STRATEGY FOR A NON-PROFIT ORGANIZATION. SOUND LIKE YOUR KIND OF CHALLENGE? SIGN UP FOR COMMUNICATION AT HAN.

HANUNIVERSITY.COM/COMMUNICATION

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY OF APPLIED SCIENCES

PROFESSION_

Communication professionals are the voice of organizations. They interact with various target groups using different forms of verbal, visual and online media. The target groups?

CUSTOMERS AND CLIENTS.

Aim? To sell products or services. That means you work on marketing communication.

EMPLOYEES.

Aim? To ensure everyone is on the same page. That requires effective internal communication.

PARTNERS, SHAREHOLDERS, GOVERNMENT, THE COMMUNITY.

Aim? To foster cooperation and support. That's all about external communication.

JOBS

With this degree, you can get a job as:

- (Junior) Marketing Communication Manager
- International Advertising Account Manager
- Public Relations Specialist
- Spokesperson
- International Brand Manager
- Social Media Manager

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?

YES? Then the program is a good match for you!

INTERNATIONAL SCHOOL OF BUSINESS

Communication is taught at HAN's International School of Business. A renowned business school in the Netherlands. Our aim? To give you a high-quality and engaging business education. Inspire you to learn and grow. Both during your studies and beyond. So, no matter what the future holds, you will succeed in any business setting.

PROGRAM IN BRIEF

THEORY AND PRACTICE

At HAN University of Applied Sciences, theory and practice go hand in hand. First you dive into the theory. Then you put it into practice. Giving you not only the knowledge but also the skills and experience to deal with real communication issues.

HAN works closely with the professional field. What that means for you? You get to solve real communication problems and work on real international cases. During the program, you embark on challenging group projects for external clients. Make a digital magazine. Devise an integrated communication plan. Be creative while using the latest evidence-based practices.

PROGRAM OVERVIEW

1st year

- Persuasive Communication
- Marketing Communication and Branding
- Digital Marketing
- Research in Communication
- Essentials of an Organization
- Creating Content
- Introduction to Public Relations
- Intercultural Awareness
- Problem Solving and Decision Making
- Personal and Professional Development
- Business Communication
- Dutch/French/German/Spanish

2nd year

- Communication in International Marketing
- Business Communication
- Media Production, Design and Branding
- Integrated Communication Game
- International Week
- Research: Customer Journey
- Organization in Change
- Personal and Professional Development
- Electives
- Dutch/French/German/Spanish

3rd year

- Study Abroad
- Internship (Abroad)

4th year

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

BUILD YOUR PROFESSIONAL EXPERIENCE

In your 3rd year you do an internship. Where? At an internationally oriented company. Like Nissan, Shell, Bosch or Dior. Apply what you've learned and gain new perspective. Put your foreign language skills to work. Get hands on experience with different cultures.

In your 4th year you work on your graduation assignment. Your task? Devise a planned solution to a communication problem at a strategic level. This could be a plan for marketing communication, branding or online management. Where? At an internationally oriented company like Philips, KLM, Nike or Estee Lauder.

WHY STUDY COMMUNICATION AT HAN?

Renowned business school
The International School of Business (ISB) has decades of experience in educating professionals for the world of international business.

ISB Talent Event
Ambitious? Enter the exciting ISB Talent Event and present your group project to an international panel of professors.

Linked to professional field
A committee of communication professionals advises us on the program. This keeps it relevant and up-to-date.

Study abroad
In your 3rd year you study abroad for 1 semester at one of our 120 partner universities.

Small groups
Groups are kept small. Why? To give you lots of opportunities to interact during class.

Inspiring community
The student population at ISB is diverse. Our students come from over 60 different countries. A warm and inspiring community. So wherever you're from, you'll feel at home.

MASTER DEGREE?

Like studying? Want to further your skills? Like to get a job in a higher position? Your Bachelor in Communication gives you access to loads of master degrees across the globe.
For example, a master in:
→ International Communication
→ Business Communication
→ Communication Science

GOING ABROAD

At Communication we use the 3-culture principle. What does that mean? You get to experience at least 3 different cultures during your studies. Up close. That's why you go abroad for a semester during your 3rd year. A semester of study at another international university. You can choose from over 120 partner universities from across the globe. Discover yet another culture. Broaden your horizons even more.

ADMISSION REQUIREMENTS

→ Diploma of secondary education with sufficient scores in Mathematics
→ Fluency in English:
- IELTS 6.0 or higher
- TOEFL 80 or higher (internet-based)
- Cambridge Certificate (CAE or CPE)

hanuniversity.com/admission

CREDITS AND STUDY LOAD

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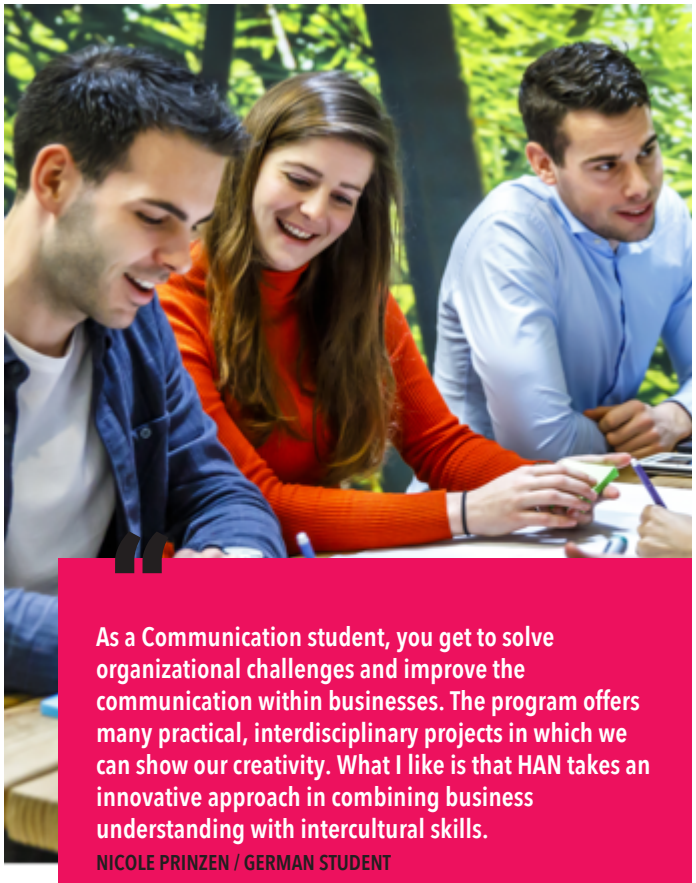
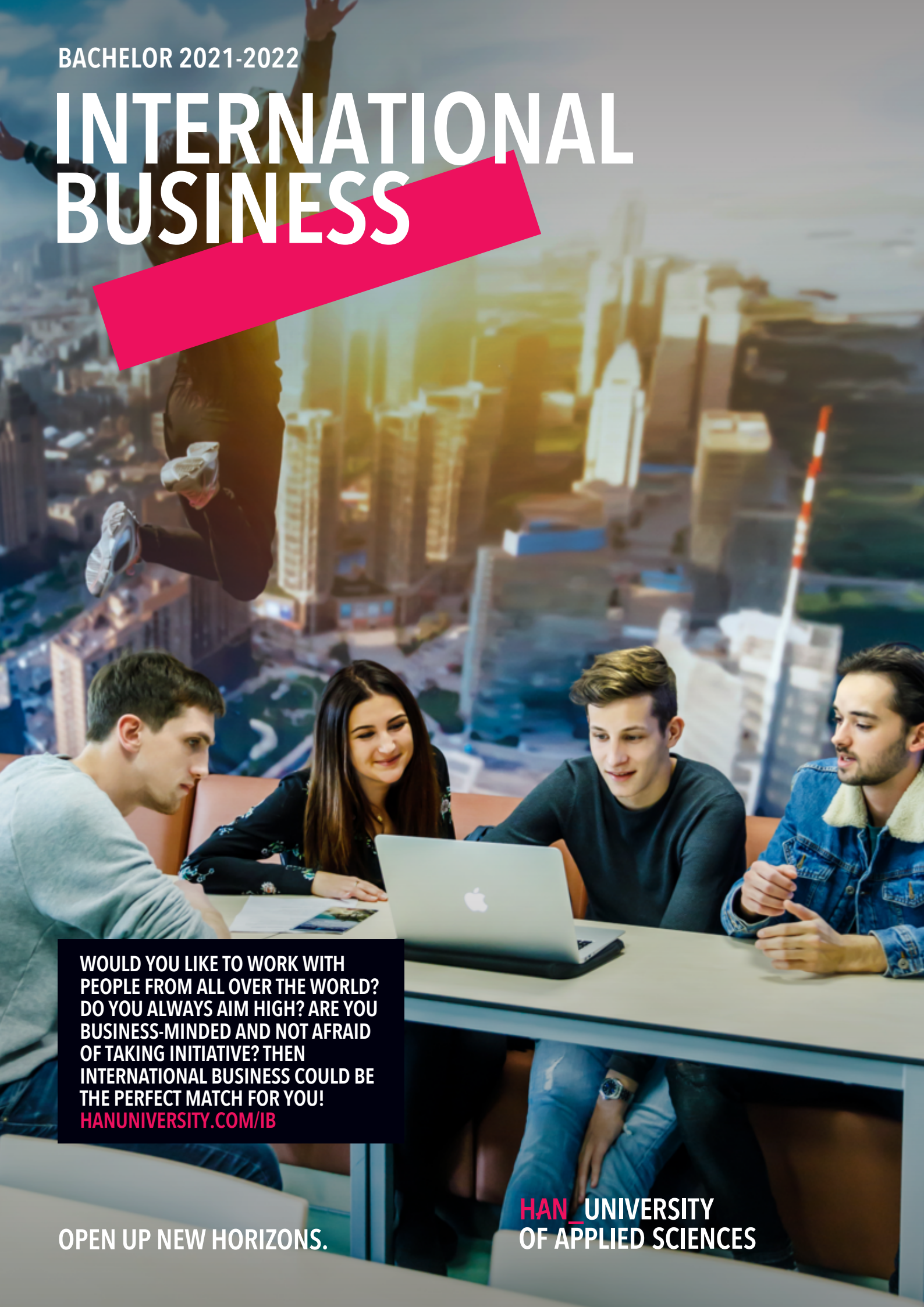


As a Communication student, you get to solve organizational challenges and improve the communication within businesses. The program offers many practical, interdisciplinary projects in which we can show our creativity. What I like is that HAN takes an innovative approach in combining business understanding with intercultural skills.
NICOLE PRINZEN / GERMAN STUDENT

BACHELOR 2021-2022

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!
HANUNIVERSITY.COM/IB

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY OF APPLIED SCIENCES

PROFESSION_

International Business prepares you for a global and dynamic career. Discover new markets. Design online marketing campaigns. Travel. Negotiate with clients. Analyze data. It's all in a day's work for IB graduates.

Your career? Start in entry or trainee positions. Then work your way up to middle and senior management positions. You'll be looking at a job in your area of specialization. So finance, organization & change, marketing & sales or supply chain management. What kind of company? Any international company or innovative firm. In any sector.

JOBS

With this degree, you can get a job as:

- (Junior) International Marketing Manager
- Change Manager
- Business Consultant
- (Junior) International Sales Manager
- Financial Analyst
- Marketing Consultant
- Export Manager
- Supply Chain Manager
- Account Manager

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?

YES? Then the program is a good match for you!

INTERNATIONAL SCHOOL OF BUSINESS

International Business is taught at HAN's International School of Business. A renowned business school in the Netherlands. Our aim? To give you a high-quality and engaging business education. Inspire you to learn and grow. Both during your studies and beyond. So, no matter what the future holds, you will succeed in any business setting.

PROGRAM IN BRIEF

THEORY AND PRACTICE

The International Business program gives you the theory. And much more. You get the opportunity to put your knowledge and skills to the test. Constantly. HAN's programs are renowned for their seamless integration of theory and practice. That's because we work in close collaboration with the professional field. What that means for you? You get to work on real projects for real companies. Work on team projects together with 4 or 5 of your classmates. Work out your plan. Do the research. Report on your findings.

SPECIALIZATIONS

→ Finance
Help companies thrive financially. How? By monitoring the finances. And reporting on your findings to management.

→ Organization & Change
Support and advise companies in the process of change. In dealing with the changes. And implementing them.

→ Marketing & Sales
Expand into new markets abroad. Improving existing international sales. Research customer needs and market opportunities.

→ Supply Chain Management
Ensure items move in the right direction at the right time. From the raw materials, through production, to the end user.

PROGRAM OVERVIEW

1st year

- Marketing & E-business
- Intercultural Awareness
- Dutch/Spanish/French/German
- Finance & Accounting
- Change Management
- Supply Chain Management
- Digital Innovation
- Research
- Problem Solving and Decision Making

2nd year

Depending on your specialization, your courses include:

- Finance: International & Corporate Finance, Accounting, Risk management, Performance Management, Governance.
- Organization & Change: E-business, Sustainability, Innovation, Project Management, Leadership, New Types of Business.
- Marketing & Sales: International Account Management, Improving International Sales, E-commerce, Foreign Language.
- Supply Chain Management: Customer Service, Marketing, Sourcing, Production, Distribution, Finance.

3rd year

- Study Abroad
- Internship

4th year

- Research Project
- Graduation Internship

BUILD YOUR PROFESSIONAL EXPERIENCE

Experience business life first-hand during your internship at an international company. When? Your 3rd year. Where you'll go? To a commercial or public organization. In either the marketing, sales, , management, finance or logistics department. Think of companies like Deloitte Consulting, KLM, BMW, or L'Oreal.

In your 4th year you intern at a company in an international business context. Develop and show your professional competence by performing complex tasks and activities in the fields of your specialization. You'll work with a large degree of autonomy. But you have to prove you're able to integrate various competencies at the level of a starting professional. How do you show this? Through a portfolio and a criterion-based interview.

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ISB Talent Event
Ambitious? Enter the exciting ISB Talent Event and present your group project to an international panel of professors.

Truly international class
Over half of your classmates are international students!

International experience
Lots of opportunities to gain international experience. Like when you study abroad at one of over 120 partner universities across the globe.

Inspiring community
The student population at ISB is diverse. Our students come from over 60 different countries. A warm and inspiring community. So wherever you're from, you'll feel at home.

MASTERS DEGREE?

Keen to continue your studies? Want to get a job in a higher position? With this bachelor degree you can study at any number of universities across the globe. Sign up for a master in:

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

GOING ABROAD

At International Business we want you to truly experience other cultures. Up close. That's why you get to spend 1 semester studying at another university. At one of our 120+ partner universities across the globe. Put your foreign language skills to the test. Soak up the culture. Study new business subjects. Or go much deeper into a familiar subject.

Where you'll go? You give your preferences for the country and the university you'd like to go to. Then there's a selection procedure and you find out where you'll be studying!

ADMISSION REQUIREMENTS

- ➔ Diploma of secondary education with sufficient scores in Mathematics
- ➔ Fluency in English:
- IELTS 6.0 or higher
- TOEFL 80 or higher (internet-based)
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hanuniversity.com/admission

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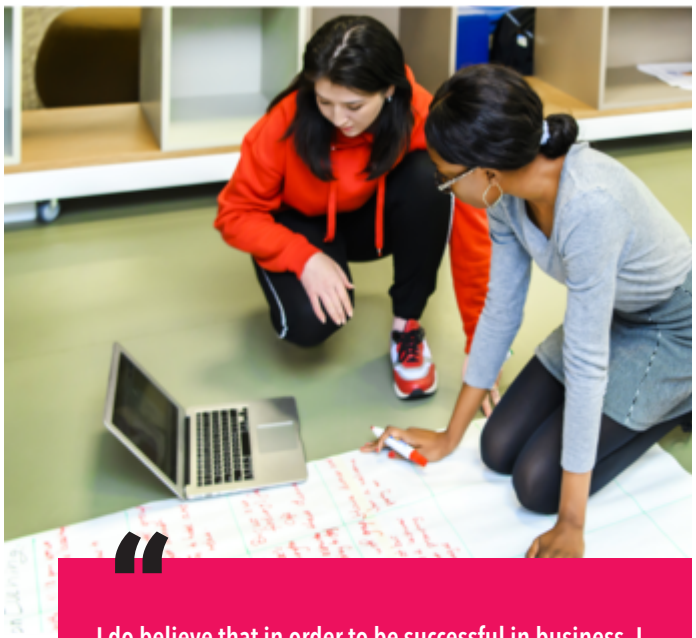
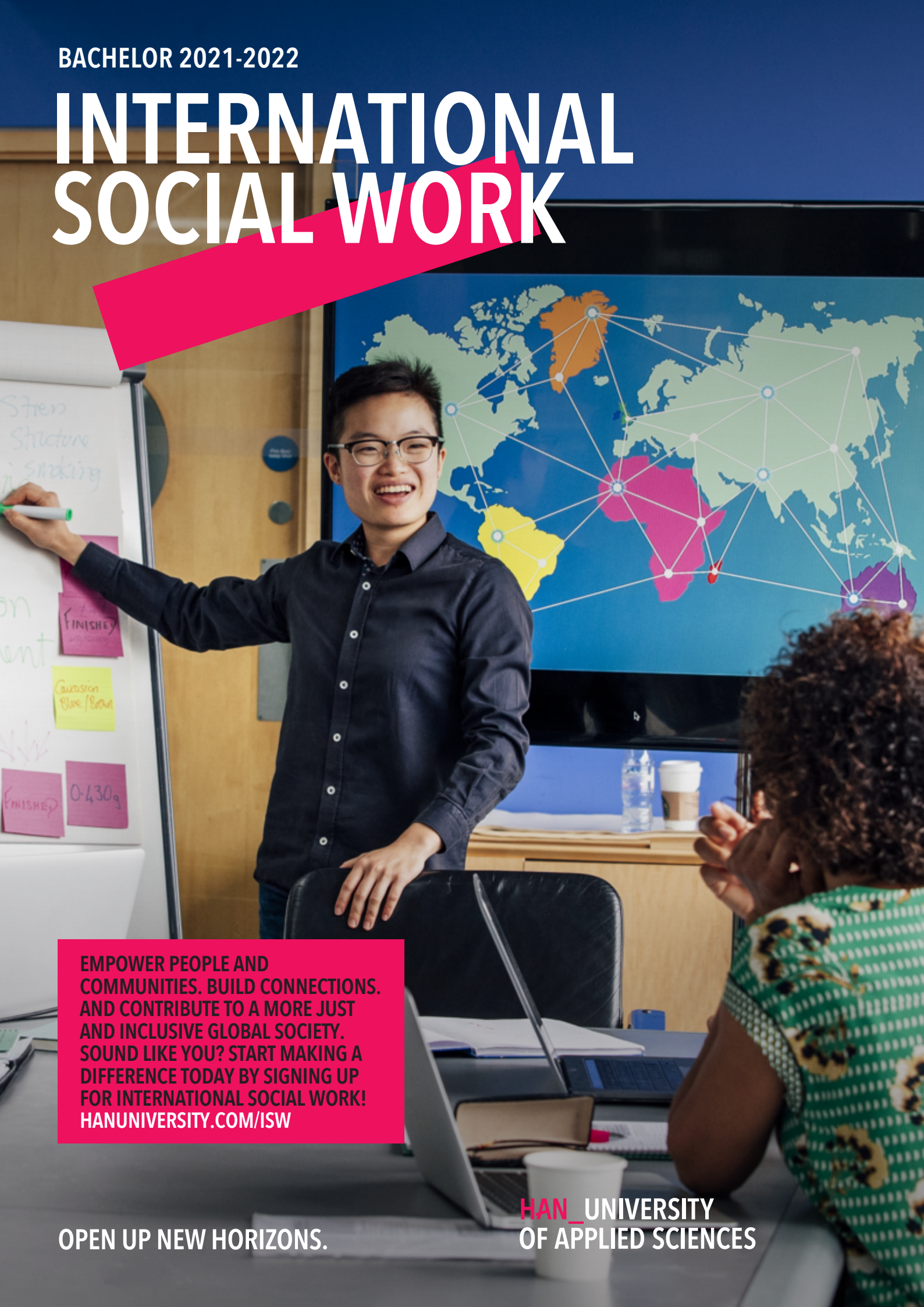


"I do believe that in order to be successful in business, I need to develop a global mind-set. HAN really helps me to achieve this goal. During the program I have been provided with insights into the global economic and business climates. What I like the most is that I am part of a proactive multicultural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

BACHELOR 2021-2022

INTERNATIONAL SOCIAL WORK



EMPOWER PEOPLE AND COMMUNITIES. BUILD CONNECTIONS. AND CONTRIBUTE TO A MORE JUST AND INCLUSIVE GLOBAL SOCIETY. SOUND LIKE YOU? START MAKING A DIFFERENCE TODAY BY SIGNING UP FOR INTERNATIONAL SOCIAL WORK!
HANUNIVERSITY.COM/ISW

OPEN UP NEW HORIZONS.

HAN_UNIVERSITY OF APPLIED SCIENCES

PROFESSION_

International Social Work at HAN trains you to work together with local communities in an international setting. You work systematically and with proven methods. Setting up projects. Liaising with local and international contacts. Connecting people. Your aim? To empower the individuals and communities you work with. So that they become more resilient and self-reliant.

Today we face all kinds of global issues. Natural disasters. Migration. Climate change. Interreligious conflict. Poverty. Issues that need more than just a quick fix. That's where you as a social worker come in. You empower communities to tackle such issues from the ground up. Always in collaboration with the involved parties. And always in a sustainable manner.

JOBS

- Social Worker in Community Development
- Socio-cultural Worker
- International Project Leader in Community Development

A GOOD MATCH?

- Are you interested in global themes and issues?
- Would you like to contribute to improving the world?
- Do you find it important to have a career that's meaningful?
- Do you like working with people from different cultures?
- Are you keen on travelling and are you adventurous?
- Are you a good team player?

YES? Then the program is a good match for you!

BROAD NETWORK

HAN has been running the Dutch-taught social work degree for many years now. So we've built up a broad network. We collaborate with health care organizations. Community organizations. Government bodies. NGOs. And partner universities. In both the Netherlands and abroad. We're also linked to the International Federation of Social Workers and the International Association of Schools of Social Work.

PROGRAM IN BRIEF

THEORY AND PRACTICE

Theory and practice are closely linked at HAN. Your lecturers guide you through all the current research on international social work. At the same time, you dive straight into practice. Allowing you to apply the methodologies you learn in a real work setting.

In your 1st year you work as an intern for 1 day a week. Where? At an internationally-oriented organization in the Netherlands. From your 2nd year your internship intensifies in time, complexity and responsibility. And you have the option of going abroad for this. So you'll have plenty of opportunities to put what you've learned into practice. In real communities.

SPECIALIZATION

Social work is a very broad field. When you graduate from this program, you'll be specialized in Community Development and Inclusive Society.

PROGRAM OVERVIEW

1st year

- Introduction to Social Work Theory
- Psychology & Pedagogy
- Theories on Communities
- Critical and Ethical Considerations
- Target-Group Analysis
- Development of Social Participation
- Community Development
- Contacting Target Groups
- Individual and Group Counselling
- Creative Skills
- Professional Writing Skills
- Profile building and Presenting
- Internship

2nd year

- Empowerment in Social Work
- Voluntary and Involuntary Contexts
- Psychology & Sociology
- Guiding Groups
- Network Development
- Motivational Interviewing
- Social Research
- Social Technology
- Creative Skills
- Internship

3rd year

- Specialization Program: Community Development & Inclusive Society
- Internship
- Social and Participatory Action Research (on location)

4th year

- Social and Participatory Action Research (on location)
- Elective Minor Program

BUILD YOUR PROFESSIONAL EXPERIENCE

In your 2nd, 3rd or 4th year you can do your internship abroad. Where you might go? That could be anywhere in the world. Many students will do an internship at an NGO. For example, the Red Cross, Oxfam Novib, Greenpeace or War Child. You could be working at a refugee camp. Setting up a health, sports or music program in the slums of Calcutta. Or in the townships in South Africa. In collaboration with local professionals and possibly together with a student from another discipline.

In your 4th year you get hands-on experience at designing and conducting your very own research project. The type of research? Participatory action research. That means your starting point is an actual need within the community. A need you identified in your 3rd-year internship. And you won't just make recommendations in a report. You'll actually set up and execute the project. A project that impacts the lives of real people.

WHY STUDY INTERNATIONAL SOCIAL WORK AT HAN?

One of a kind
This is the only international bachelor degree in social work in the Netherlands.

International community development
At the end of this program, you'll be a specialist in community development. A growing field within social work.

Practice-based
Spend loads of time gaining experience in the field. Putting the theory into practice. Having immediate impact.

Creative methods
Focus on creative methods within social work. Sport. Art. Drama. Music. Games. Use these to connect and activate people.

MASTER DEGREE?

Ambitious? Keen to further your education? Want a position with more responsibility? Make sure you choose a transfer minor during your studies. This prepares and qualifies you for a master degree at a research university. For example, the Masters in Community Development at Utrecht University. A perfect match for HAN students with a BSc in International Social Work. Or what about doing a master degree in another country?

ADMISSION REQUIREMENTS

→ Diploma of secondary education
→ Fluency in English:
- IELTS > 6.0
- TOEFL > 80 (Internet based)
- Cambridge Certificate (CAE or CPE)

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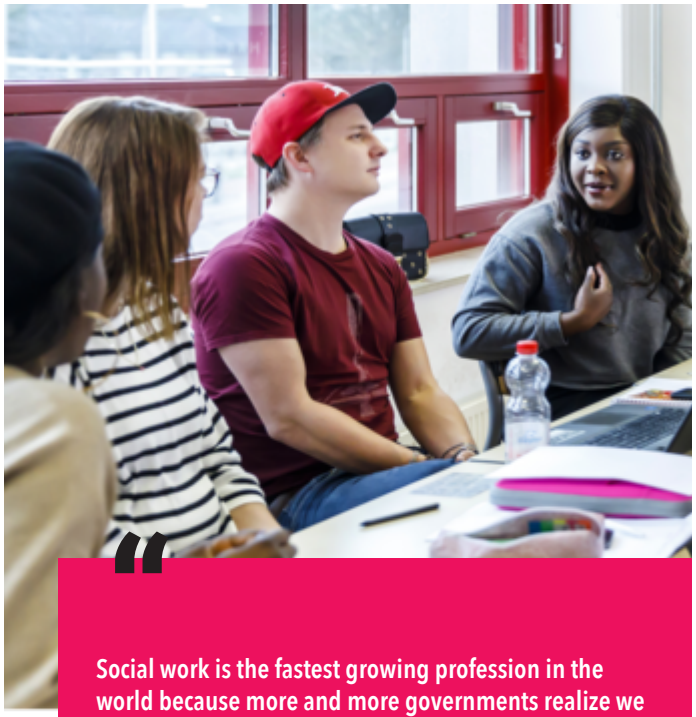

Social work is the fastest growing profession in the world because more and more governments realize we need social work to run good societies.

RORY TRUELL / SECRETARY GENERAL OF THE INTERNATIONAL FEDERATION OF SOCIAL WORKERS