

BACHELOR 2023-2024

# 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.

[HANUNIVERSITY.COM/AE](https://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!

For more information, contact us at:

Whatsapp: +62 813-8880-0069  
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Instagram: @kuliah.dibelanda

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office@duabangsa.com

# 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 3 semesters of the program give you a solid foundation in all the disciplines within automotive engineering. In your 4th semester (2nd year) you start to specialize. Choose from various fields of expertise:

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

## PROGRAM OVERVIEW

### 1st and 2nd year

Disciplines within the automotive engineering:

- 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

In the 2nd semester of your 2nd year you choose to specialize in one of the fields of expertise.

### 3rd year

- Internship
- Research semester in your chosen specializations

### 4th year

- Minor
- Graduation Assignment



BACHELOR 2024-2025

# CHEMISTRY

WANT TO MAKE A DIFFERENCE  
THROUGH SCIENCE?  
SIGN UP FOR CHEMISTRY AT HAN AND  
GET A SOLID START TO A REWARDING  
CAREER.

[HANUNIVERSITY.COM/CHEMISTRY](https://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 petrochemicals.

There are lots of analytical chemistry jobs 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
- Analytical Chemist

## A GOOD MATCH?

- Are you good at chemistry?
- Do you have solid maths skills?
- Are you accurate and hard working?
- Do you know how to work by yourself and within a team?
- Are you someone who doesn't give up easily?
- Are you actively involved in your community/society?
- Do you enjoy solving puzzles?

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

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Email:  
des@cbn.net.id / office@duabangsa.com

## TALENT PROGRAM

Show your chemistry talent in the 1<sup>st</sup> 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 3<sup>rd</sup> year you specialize in analytical chemistry or organic and polymer chemistry. You work on projects for companies and focus on practice-based research.

## PROGRAM OVERVIEW

### 1<sup>st</sup> year

- Mathematics
- Laboratory Calculations
- Biology
- Physics
- General Chemistry
- Analytical Chemistry
- Laboratory Practice
- Organic Chemistry
- Polymer Chemistry
- Chromatography
- Thermodynamics

### 2<sup>nd</sup> 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

### 3<sup>rd</sup> year

- Internship or Minor
- Specialization in Analytical Chemistry or Organic and Polymer Chemistry.

### 4<sup>th</sup> year

- Internship or Minor
- Graduation Project



BACHELOR 2024-2025

# COMMUNICATION

LOOKING FOR AN INTERNATIONAL  
CAREER IN MARKETING,  
COMMUNICATION, ADVERTISING OR  
PUBLIC RELATIONS?  
STUDY COMMUNICATION AT HAN.  
[HANUNIVERSITY.COM/  
COMMUNICATION](https://hanuniversity.com/communication)

OPEN UP NEW HORIZONS.

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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 promote 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. Sometimes combined with behavior change 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
- Content Marketing Specialist
- Internal Communication Specialist
- Community 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!**

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Email:  
des@cbn.net.id / office@duabangsa.com

## 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
- Life Skill Coaching
- Business Communication
- Dutch/French/German/Spanish

### 2nd year

- Communication in International Marketing
- Business Communication
- Media Production, Design and Branding
- Research: Customer Journey
- Organization in Change
- Life Skill Coaching
- Electives
- Dutch/French/German/Spanish

### 3rd year

- Study Abroad
- Internship (Abroad)

### 4th year

- Life Skill Coaching
- Integrated Marketing Communications
- Public Relations
- Internal Communication
- Design Thinking
- Creative Execution
- Graduation Internship



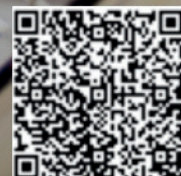
BACHELOR 2024-2025

# ELECTRICAL AND ELECTRONIC ENGINEERING

WOULD YOU LIKE TO USE SCIENCE  
AND TECHNOLOGY TO IMPROVE THE  
WORLD WE LIVE IN? CHOOSE  
ELECTRICAL AND ELECTRONIC  
ENGINEERING AT HAN.  
[HANUNIVERSITY.COM/EEE](https://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 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. Healthcare industry. Food processing. The energy sector. The list goes on.

## JOBS

With this degree, you can get a job as:

- Hardware Engineer
- Industrial Automation Engineer
- Power Engineer
- Lead Engineer
- Advisor
- Team Leader
- Service Engineer
- Technical Engineer
- Project leader
- Consultant

## 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!**

For more information, contact us at:

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Facebook: Studi di Belanda

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des@cbn.net.id  
office@duabangsa.com

# PROGRAM IN BRIEF

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:

- Build your own electronics: Power Supply and Time-Phased Machine
- Design a smart energy system based on a micro controller

## PROGRAM OVERVIEW

### 1st year

Electrical Engineering Fundamentals

- Mathematics
- Electrical Circuits
- Measuring Lab

Electrical Design

- Sustainable Electricity Grid
- Magnetism and Transformers
- Mechanics and Electrical Machines

Electronic Design

- Electronic Semiconductor Components
- Microcontroller Programming

Projects

- Range of interesting projects to choose from
- Workshops: Network Simulation
- Workshops: Printed Circuit Board design and Realization
- Workshops: Research Methods
- Professional Skills

### 2nd year

Electronics Design, Systems and Signals

- Electronics
- Control Systems
- Data Communication

Power Systems

- Power Electronics and Inverters
- Electrical Drives and Machines
- Distribution and Low Voltage Grid

Industrial Control Systems

- Systems Modelling
- Advanced & Servo Control
- Discrete Event Systems
- Industry 4.0

### 3rd year

- Internship
- Systems Modelling
- Advanced & Servo Control
- Discrete Event Systems
- Industry 4.0

### 4th year

- Minor
- Graduation Project



BACHELOR 2024-2025

# EMBEDDED SYSTEMS ENGINEERING

EXPLORE THE DIGITAL WORLD AND  
LEARN HOW TO DEVELOP HARDWARE  
AND SOFTWARE FOR SMART SYSTEMS.  
BECOME AN EMBEDDED SYSTEMS  
ENGINEER!

[HANUNIVERSITY.COM/ESE](https://hanuniversity.com/ease)

OPEN UP NEW HORIZONS.

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# PROFESSION

You'll be able to develop smart embedded systems for innumerable applications. A smart cane for the visually impaired. A medical system for instant diagnosis of diseases. A smart thermostat with geofencing. Or a wireless fire detection sensor network to help firefighters do their work.

As an embedded systems engineer, you'll definitely get a challenging, international job. This program gives you the opportunity to work for a wide variety of companies in different sectors. Think about: agriculture, healthcare, internet of things, marine or machine building. Employers are waiting for you!

## JOBS

With this degree you can get a job as:

- Embedded software/hardware developer
- Embedded hardware specialist
- Embedded software specialist
- Real-time software developer
- Product development engineer
- Service engineer

## A GOOD MATCH?

- ➔ Are you analytical and do you have problem-solving skills?
- ➔ Do you value working in a team?
- ➔ Do you have an eye for detail and like working precisely?
- ➔ Are you always curious about how things work?
- ➔ Do you like rolling up your sleeves and working in a practical setting?
- ➔ Would you like to design, create and test new products and systems?
- ➔ Are you interested in using modern technologies to improve new designs?

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

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# PROGRAM

The program for Embedded Systems Engineering is technology driven. You learn to keep up with the latest developments. And equally important: you put it into practice. From the very start of the program. So when you graduate you're an engineer with lots of relevant experience.

Throughout your studies, you work with your classmates in project teams. You also get the chance to work with professionals from the field.

## THEORY AND PRACTICE

At HAN University of Applied Sciences, theory and practice are closely linked. Throughout your studies you're constantly challenged apply the theory in projects. Projects like developing an autonomous vehicle. Developing a climate controller for an incubator. Or developing an interface for a coffee machine.

## COURSE OVERVIEW

### 1st year

#### Embedded Hardware Engineering

- Mathematics
- Electrical Networks
- Electronics
- Digital circuits

#### Embedded Software Engineering

- C and C++ programming
- 8-bit Microcontrollers
- Cortex-M Microcontrollers

### 2nd year

#### Embedded Hardware Engineering

- Data communication
- Digital Systems Design
- Digital Signal Processing

#### Embedded Software Engineering

- Software design with Unified Modelling Language (UML)
- Operating systems
- Digital control systems
- Security

### 3rd year

#### Smart Embedded Systems

- Internet of Things (IoT)
- Digital Signal Processing
- Artificial Intelligence
- Internship
- Databases

### 4th year

- Minor
- Graduation Project



BACHELOR 2024-2025

# INTERNATIONAL BUSINESS

ARE YOU BUSINESS-MINDED AND NOT  
AFRAID OF TAKING INITIATIVE? THEN  
INTERNATIONAL BUSINESS AT HAN  
COULD BE THE PERFECT MATCH FOR  
YOU!

[HANUNIVERSITY.COM/IB](https://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 International Business 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 toward 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!**

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## 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

Choose a specialization or go for the allround route. There are some common subjects in year 2, e.g. a second language.

Depending on your specialization, your courses include:

- Finance: Accounting and Finance, Advanced Financial Accounting and Reporting
- Organization & Change: Internal Change, Organizational Change
- Marketing & Sales: International Marketing Management Strategies, Selling and Sales Consulting
- Supply Chain Management: Sustainability in the Supply Chain, Lean Six Sigma

### 3rd year

- Study Abroad
- Internship

### 4th year

- Courses in your specialization
- Research Project
- Graduation Internship



BACHELOR 2024-2025

# INTERNATIONAL SOCIAL WORK

EMPOWER PEOPLE AND  
COMMUNITIES. BUILD CONNECTIONS.  
CONTRIBUTE TO A MORE HEALTHY  
AND INCLUSIVE GLOBAL SOCIETY.  
START MAKING A DIFFERENCE TODAY  
AND SIGN UP FOR INTERNATIONAL  
SOCIAL WORK AT HAN!  
[HANUNIVERSITY.COM/ISW](https://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.

The world today is more connected than ever. Changes in one country have a direct effect on the rest of the world. That's why it's so important to have knowledge of human rights, the problem of poverty, and climate change. 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.

## JOB

- Social worker
- Social-cultural worker
- Youth worker in a multicultural community
- Coordinator of social projects for vulnerable communities
- Project leader in community development
- Social project developer for inclusive societies

## 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!**

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desecbn.net.id / office@duabangsa.com

## 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. 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.

You will learn all about the profession of social work through internationally-oriented organizations in the Netherlands and abroad. Over the years, your practice-based learning intensifies in time, complexity and responsibility. 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 Counseling
- Creative Skills
- Professional Writing Skills
- Profile Building and Presenting
- Practice-based Learning

### 2nd year

- Empowerment in Social Work
- Voluntary and Involuntary Contexts
- Psychology & Sociology
- Law & Philosophy
- Global interconnectedness
- Motivational Interviewing
- Social Research
- Social Change
- Creative Skills
- Project-based Learning

### 3rd/4th year

- Specialization Program: Community Development & Inclusive Society
- Internship (3 semesters, possibility to go abroad)
- Social and Participatory Action Research (on location)
- Elective Minor Program



BACHELOR 2024-2025

# LIFE SCIENCES

WOULD YOU LIKE TO USE SCIENCE TO  
IMPROVE THE WORLD WE LIVE IN?  
STUDY LIFE SCIENCES AT HAN AND  
GET A SOLID FOOTING IN THIS  
EXCITING FIELD.

[HANUNIVERSITY.COM/LIFESCIENCES](https://hanuniversity.com/lifesciences)

OPEN UP NEW HORIZONS.

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# PROFESSION

Are you ready to improve the health of people, plants and the environment? Do you want to culture cells in the lab? Or be part of research that helps us understanding diseases better?

Life Sciences at HAN gives you the skills and understanding to perform lab research. That could be fundamental research or applied research. You can specialize in molecular plant biology, biomedical research biotechnology or neuro-immunology. 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 at a biotech or pharmaceutical company. The type of work? Researching diseases. Designing new drugs. Plant research. Checking product quality.

## JOBS

With this degree, you can get a job as:

- Research Assistant
- Assay Development Scientist
- Junior Project Leader/Lab Manager
- Biomedical Analyst
- Microbiological Analyst
- Biotechnological Analyst
- Analyst in Molecular Plant Biology

## 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?
- Are you interested in bio-based materials?
- Do you want to work on a more sustainable world?
- Do you like the idea of working in a lab?
- Are you accurate and hard working?

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

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## HAN BIOCENTRE

This degree is linked to the HAN BioCentre. The research focus here is biobased innovations and drug discovery. 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 experiments in the lab where you spend on average 8 hours per week. The experiments are sometimes performed individually or in a small group of 3-4 students, but most often you will work together with your labpartner.

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 2<sup>nd</sup> year, you're ready to choose your specialization. Your options are:

- Molecular Plant Biology
- Biomedical Research
- Biotechnology
- Neuro-immunology

## PROGRAM OVERVIEW

### 1st year

- Cell Biology
- Molecular Biology
- Biology
- Safety
- Microbiology
- Chemistry
- Laboratory Calculations
- Bioinformatics
- Mathematics

### 2nd year

- Biochemistry
- Molecular Biology
- Bio-informatics
- Microbiology
- Plant Biology
- Immunology
- Human Biology
- Histology
- Cytology

### 3rd year

- Internship or Elective

Choose your specialization in:

- Biomedical Research
- Molecular Plant Biology
- Biotechnology
- Neuro-immunology

### 4th year

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



BACHELOR 2024-2025

# MECHANICAL ENGINEERING

WOULD YOU LIKE TO DESIGN AND  
CONSTRUCT THE SUSTAINABLE  
MACHINES OF THE FUTURE? SIGN UP  
FOR MECHANICAL ENGINEERING AT  
HAN.

[HANUNIVERSITY.COM/ME](https://hanuniversity.com/me)

OPEN UP NEW HORIZONS.

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OF APPLIED SCIENCES





# PROFESSION

The engineering profession has many faces. You could be designing roller coasters for amusement parks. Creating installations for a complicated manufacturing process. Or re-designing powertrains to run on biofuel. It's all possible with a mechanical engineering degree.

Learn how to use technology to increase machine performance parameters. In anything from huge cranes to the smallest micromechanical applications in healthcare. Develop your designing skills to let energy systems run on the smallest amount of energy possible. Or to run on renewable energy. Apart from the energy side of things? You'll dive into steering and control, cost-efficient design and human-machine interfaces. In short, you're choosing a broad, multidisciplinary field.

## JOB

Choose from a wide range of positions. In some jobs you can get your hands dirty and in others you can keep them clean in the CAD design studio. What appeals to you?

With this degree, you can get a job as:

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

## 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?
- Do you have a good feel for trends in user-friendly technology?
- 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!**

For more information, contact us at:

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# PROGRAM IN BRIEF

## THEORY AND PRACTICE

Applying theory in practice is crucial for 2 reasons. First, it helps you understand complex ideas. Second, it gives you valuable practical experience. That's why already in the 1<sup>st</sup> year you start working on design 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

### 1<sup>st</sup> 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

### 2<sup>nd</sup> 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 Modeling
- Multidisciplinary Projects

### 3<sup>rd</sup> year

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

### 4<sup>th</sup> year

- Minor Exchange
- Graduation Project (mostly within an international company)