



OUR RESEARCH: INNOVATING AND STATE-OF-THE-ART!

Over the years, Howest has built a solid reputation in application-oriented scientific research, services and education, partnering with universities and work-field organisations in Belgium, Europe, and all over the world. Almost all of our research projects are either demand-driven or in close collaboration with enterprises. They are organised around topnotch, highly skilled and innovative research teams.

BRUGES

Bruges is an inspiring city that will capture your heart. Retaining the mysteries of the Middle Ages and unashamedly exuberant, Bruges has been an international metropolis for centuries. Nowadays it is a Unesco World Heritage City, which became especially popular after the movie “In Bruges”. Bruges is easily accessible from many major cities. Within a few of hours by train or car you can be in Paris, London, Amsterdam, Cologne or Luxembourg.



GET IN TOUCH

Admission questions:
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Programme Information:
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HOWEST IN A NUTSHELL



24 bachelor programmes
12 associate degrees
1 European master



multiple student startups

800 employees



#howestvibe



member of
Ghent University
Association



international students coming from
45 countries

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+6 mio € a year on research and innovation



HOWEST UNIVERSITY OF APPLIED SCIENCES CYBERSECURITY

ANTICIPATING THE FUTURE

howest
university of applied sciences



INDUSTRY-DRIVEN EDUCATION AND FUTURE-PROOF SKILLS

Howest University of Applied Sciences is known for its innovative and interdisciplinary approach to education and research, and its close collaboration with industry, business and the social profit sector. Howest is a member of Ghent University Association and is fully accredited by NVAO, the Dutch-Flemish Accreditation Organisation. Our campuses are located in the historical cities of Bruges and Kortrijk in Belgium.

We offer 24 Bachelors, 12 Associate Degrees and many Postgraduate Certificate programmes, all with a strong practical focus, in the areas of Business & Management, Industrial Sciences & Technology, Digital Design, Architecture, Healthcare, Education and Social Sciences. Field-driven assignments, on-the-job training and internships are the key components of each programme. That is how we meet the changing needs of today's society and arm our students with future-proof skills.

RENOWNED TECH PROGRAMMES

Howest is renowned for its Tech programmes, such as Cybersecurity, Digital Design and Development and Digital Arts and Entertainment. According to The Princeton Review® Howest University of Applied Sciences is one of the top undergraduate schools at which you can study game design. With its Bachelor programme in Digital Arts and Entertainment (DAE), Howest ranked #21 on the undergraduate programmes list for 2020. Howest and DAE programme also got the first place in The Rookies Award as Best Game Design and Development School in the world in 2017 and 2018, and the fifth place in 2019.

BACHELOR OF APPLIED COMPUTER SCIENCES MAJOR CYBERSECURITY

Did you ever want to understand how a hacker works and to counter their attacks through **reverse malware engineering**? Are you interested in becoming an **ethical hacker** and help private and public sector organizations find their weak spots through **penetration testing (system, web, and network)**? Do you want to help fight **Cybercrime** and find the bad guys by conducting a **forensic analysis**? Or is your life's goal to strengthen security in the industry by learning about **Industrial Control Systems Security (OT)**? Or do you want to understand **cryptography** and how it can be used to protect or attack (ransomware)? **Data Privacy** and **GDPR** provide you the essential knowledge on your way to become a **Data Protection Officer (DPO)**. You will acquire thorough expertise in **Information Security Management** and **threat modelling and intelligence**. All of this and more is offered in this program.

As a pioneer in offering education for ground-breaking new technologies, Howest was one of the first to respond to the lack of industry-ready, practice-oriented Cyber Security Professionals by offering this bachelor program. Innovative subjects like **Cyber Warfare** and security in **5G, Blockchain**, and **AI** are included.

Of course, you will also learn the basics of hardware and desktop operating systems, networks and software development including **Secure Development** and much more. This implies that we do not require prior knowledge or experience with IT (security) though an affinity for working with computers is, of course, a benefit.



TESTIMONIAL ANNIKA TEN VELDEN DIGITAL FORENSICS CONSULTANT, NVISO

After my Master in Criminology, I was looking for a dedicated education in IT-security and forensic investigation. The bachelor program Cyber Security Professional corresponded perfectly with my needs.

As my background was in social sciences rather than in technical sciences, I did expect a challenge. As Howest focuses on the practical rather than the theoretical and offers extra support where necessary, I achieved my degree without a problem.

Because of the profound knowledge acquired in IT-security – from pentesting to forensic analysis – I received many job offers. My work at NVISO for the last five years has focused on incident response and forensic investigations. I still have regular contact with Howest and can tell from its trainees that the education continuously evolves and is adapted to the needs of the employer community.

STUDY PROGRAMME 2021 - 2022

	SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4	SEMESTER 5	SEMESTER 6
ICT INFRA-STRUCTURE	Hardware and Desktop Operating Systems	Computer Networks	Operating Systems Concepts	Windows and Linux Server #Windows Server Lab #Linux Server Lab	Datacenter Technology and Security	Internship
INFORMATION MANAGEMENT		Databases	Application Prototyping		Information Systems #Information Modeling #Advanced SQL #NoSQL #Information Exchange	
SOFTWARE DEVELOPMENT	Problem Solving #Cryptography Fundamentals	Object Oriented Programming	Object Oriented Architectures #n-tier Architectures #Secure Development	Network and System Pentesting #Ethical Hacker	Security Management Threat and Risk Assessment #ISO 2700x #NIST	
WEB & MOBILE	Programming Fundamentals	Web, Mobile and Security #Server-side Scripting #Responsive Design #Web Pentesting		Forensic Analysis	Cryptography & Blockchain #Blockchain #Ransomware #Quantum Cryptography	
ICT MANAGEMENT	Web Development		Statistics and Decision Making	Practical Reverse Engineering and Malware Analysis #Advanced Persistent Threat (APT)	Emergent Security Techniques #5G #Cyber Warfare #Industrial Security #Machine Learning	
AI			Web Technology, Security and Honeypot	Cybercrime		IT Governance #IT Governance #Cobit 2019
IT SOLUTIONS	E-business	Project Communication			Mobile Security #Multi-Factor Auth #Biometric Auth #Password Managers	Security Project
CYBERCRIME & SECURITY	Cyber Security Fundamentals	Project I - Programming Project #Project Management	Analysis and Development Project #Analysis and Business Case #IT Entrepreneurship #Technical Writing	Data Privacy and IT Law #GDPR #NIS		
PROJECTS, INTERNSHIP & THESIS					International Project	
						Bachelor Thesis
						Professional Networking

Programme subject to change