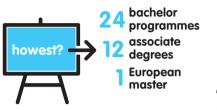


#### OUR RESEARCH: INNOVATING AND STATE-OF-THE-ART!

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 demanddriven or in close collaboration with enterprises. skilled and innovative research teams.

## HOWEST IN A NUTSHELL



multiple student startups

....

#howestvibe

....

international

students coming from 45

countries

students









#### 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.





Admission questions: admissions@howest.be Programme Information: Lecturer, Kurt Schoenmaekers kurt.schoenmakers@howest.be



member of **Ghent University** Association



....

employees •







degrees a year  $\mathbf{U}$ 



international academic partnerships



### 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

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.

# community.

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

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

#### 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	Concepts Linux S #Window	Windows and Linux Server #Windows Server Lab #Linux Server Lab	Datacenter Technology and Security	Internship
INFORMATION MANAGEMENT			Information Systems #Information Modeling #Advanced SQL #NoSQL		Windows and Linux Server Security	
	Databases	Application Prototyping	#Information Exchange	.NET Technology Fundamentals	Network and CCNA Security	
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			Forensic Analysis	Cryptography & Blockchain #Blockchain	
ICT MANAGEMENT		Web, Mobile and Security	Statistics and Decision Making	Practical Reverse Engineering and Malware Analysis	#Ransomware #Quantum Cryptography	
		#Server-side Scripting #Responsive Design #Web Pentesting		#Advanced Persistent Threat (APT)		
AI	Web Development			Cybercrime	Emergent Security Techniques #5G #Cyber Warfare #Industrial Security #Machine Learning	
			Web Technology, Security and Honeypot			Bachelor Thesis
		Project Communication		Mobile Security #Multi-Factor Auth #Biometric Auth #Password Managers	IT Governance #IT Governance #Cobit 2019	
CYBERCRIME & SECURITY	E-business	Project I - Programming Project	Analysis and	Data Privacy and IT Law #GDPR #NIS	Security Project	
	Cyber Security	#Project Management	Analysis and Business Case #T Entrepreneurship #Technical Writing	International		Professional
PROJECTS, INTERNSHIP & THESIS	Fundamentals			Project		Networking

Programme subject to change