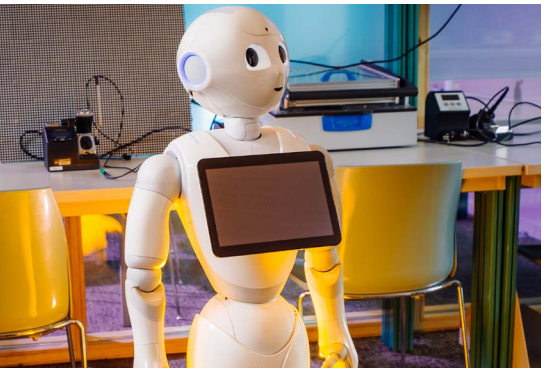
BACHELOR IN APPLIED COMPUTER SCIENCE
ARTIFICIAL INTELLIGENCE

PXL-DIGITAL

2026-2027

HOGESCHOOL PXL

THE PROGRAMME



ABOUT THE PROGRAMME

The world is digitising at an unprecedented pace. Smart systems powered by AI are running our homes, cities and businesses, cloud platforms keep our economy moving, and cybersecurity has become a vital responsibility for society as a whole.

In the Bachelor Applied Computer Science, students are trained to become exactly the kind of professionals who make a real impact in this new reality.

The programme is entirely taught in English, and upon graduation you obtain an internationally recognised and respected degree that prepares you to help shape tomorrow's AI-driven world on a global scale.

ADMISSION REQUIREMENTS

The Bachelor in Applied Computer Science is open to both international and Flemish students. To enroll, you must hold a secondary education diploma and provide proof of English language proficiency at level B2 or higher.

COURSE CONTENT

The Bachelor in Applied Computer Science degree programme is exclusively offered with Artificial Intelligence as your graduation track.

During the first three semesters, you explore the broad world of IT and build a solid foundation across five exciting domains: App & Web Development, Cloud & Cybersecurity, AI & Data Engineering, Business & IT, and Professional Skills.

From the fourth semester onwards, the programme focuses exclusively on Artificial Intelligence, where you learn how to design and develop intelligent software using computer vision, machine learning, deep learning and neural networks.

Project-based learning is at the heart of the programme, so you learn to work in a structured, team-oriented way on real-life challenges. Throughout this journey, a multidisciplinary team of lecturers will guide and coach you closely to help you grow into a confident IT professional.

In your final semester, you bring everything you have learned together in practice. During your internship, you work on a real project at a company that is leading the way in AI, giving you the perfect opportunity to showcase your skills, gain hands-on experience in the real IT world, and complete your bachelor's thesis to demonstrate your full potential.

CURRICULUM

ACADEMIC YEAR 2026-2027

YEAR 1		
COURSE	ECTS	SEM
APP & WEB DEVELOPMENT		
IT Essentials	6	1
Java Essentials	6	1
Web Essentials	3	1
.NET Essentials	6	2
Web Scripting	3	2
CLOUD & CYBERSECURITY		
Networks Essentials	3	1
Systems Essentials Linux	3	1
Systems Essentials Windows	3	2
Security Essentials	6	2
AI & DATA ENGINEERING		
Data Essentials	6	1
Data Advanced	3	2
AI Essentials	3	2
BUSINESS & IT		
IT Organisation & Management	3	1
PROFESSIONAL SKILLS		
Communication Skills 1	6	2
TOTAL	60	

YEAR 2		
COURSE	ECTS	SEM
APP & WEB DEVELOPMENT		
Java Advanced	3	1
.NET Advanced	3	1
Software Analysis	6	1
CLOUD & CYBERSECURITY		
Systems Advanced Linux	3	1
Cloud Essentials	3	1
DevOps	3	1
Security Advanced	3	2
AI & DATA ENGINEERING		
AI Algorithms & Computer Vision	3	2
Machine Learning	6	2
Web for AI	6	2
Research Project	6	2
BUSINESS & IT		
Project Management	6	1
PROFESSIONAL SKILLS		
X-perience	3	2
Communication Skills 2	6	1
TOTAL	60	

YEAR 3		
COURSE	ECTS	SEM
AI & DATA ENGINEERING		
Big Data	3	1
Neural Networks	6	1
Smart Devices	3	1
MLOps	3	1
Cloud for AI	3	1
Trends in AI	3	1
IT Project	12	1
Bachelor Project	24	2
PROFESSIONAL SKILLS		
X-talent	3	1-2
TOTAL	60	

Abbreviation SP: credits, Tables subject to change

MORE INFORMATION

INFO DAYS

SATURDAY, FEBRUARY 28, 2026
from 9:00 AM to 1:00 PM

SATURDAY, APRIL 25, 2026
from 9:00 AM to 1:00 PM

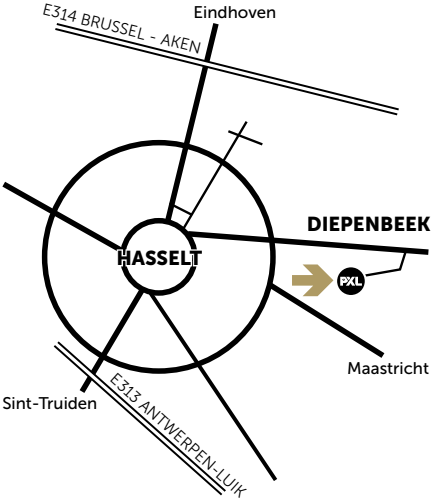
TUESDAY, JUNE 30, 2026
FROM 3:00 PM TO 8:00 PM

SATURDAY, SEPTEMBER 12, 2026
from 9:00 AM to 1:00 PM

www.pxl.be/infodagen

CAMPUS LOCATION PLAN

PXL-DIGITAL
Campus Diepenbeek
Agoralaan (Building H)
3590 Diepenbeek



HEAD OF PROGRAMME

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PXL DIGITAL

AUHL UHASSELT PXL NVAO

Ben Lambrechts - PXL University College - Elfde-Liniestraat 24 - 3500 Hasselt - Published January 2026