

After your degree?

You'll be ready to work in a **growth market**. There is a **very high demand** for the skills you will have acquired. And in **Belgium** you are perfectly located in a European **heartland** of the technical and IT sector.

Typical careers include working as a **front or back end developer**, **project coordinator** or **manager**, or an IT **consultant**. And you can specialise in the dynamic world of **artificial intelligence**.

By studying in English, you'll give yourself **global opportunity**.

Where are classes held?

Campus Groenplaats
Nationalestraat 5, 2000 Antwerp, Belgium
+32 3 613 16 00
study@kdg.be

Campus Groenplaats is the main campus, but from time to time classes are held at:

Campus Pothoek
Pothoekstraat 125, 2060 Antwerp, Belgium

Campus Stadswaag
Predikerinnenstraat 18, 2000 Antwerp, Belgium

f kareldegrotehogeschool
#kdghogeschool
@kdguniversity.asa

Open days 2024

Lecturers are on hand to answer your questions about our programme. For times, locations and extra information moments, check www.kdg.be/info-days.

SAT	SAT	SAT	TUE
09 MAR	20 APR	22 JUN	03 SEP

Time to apply

Follow the application procedure on www.kdg.be/en/apply.

STUDY
FLANDERS

Belgium, where great minds grow



Up-to-date info and video: www.kdg.be/acs

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KdG is part of AUHA, the Association of the University and Universities of Applied Sciences and Arts in Antwerp.

Join our
international
classroom!

Professional bachelor

Applied Computer Science

Specialise in **artificial intelligence** and **data**. Train to be a **developer**. Learn, practice and sharpen a range of **in-demand IT skills** by **applying** what you learn on group **projects**. Give yourself **international opportunity**. And benefit from **KdG's 50+ years of expertise in this field**. Get ready to help **shape the future!**

KdG
University of Applied
Sciences and Arts

IT
SKILLS
MARKET

Your study programme

In this transformative programme you will:

- ✓ Focus on **AI** and **future technologies**
- ✓ Learn **coding, programming, data management** and **security**
- ✓ Build your own **portfolio of projects** with classmates from around the world
- ✓ Enjoy an **8 week internship** to practice your skills for real and **begin your networking**
- ✓ Experience what it's like to work for a company. Develop your **business know-how**

Benefit from **practical coaching** with a **personal touch**.

Who is the programme for?

- ✓ You have a **passion for computer science** and **new tech innovations**
- ✓ You have a **logical mind** and enjoy solving puzzles
- ✓ You are **curious**. You have to find out how things work!
- ✓ You **learn best by doing**. **By applying** your knowledge
- ✓ You're **dedicated** and ready to **put in the hard work** for a **rewarding career**

This programme is **taught in English**.



Questions regarding eligibility, prerequisites, enrolment, tuition fee, credits, learning account, guidance, ...? Check www.kdg.be/en.

Classes

This is the planned class schedule. Check www.kdg.be/acs for updates and course content.

ECTS = European Credit Transfer System

Academic year = 2 semesters

Our approach:

- Well-defined amount of study material for the exams and a manageable workload
- Modules with a project-based focus
- Immediate and frequent feedback
- You learn how to plan

YEAR 1

COURSES	ECTS
Infrastructure <i>Includes:</i> computer architecture, operating systems, networking, scripting, Arduino	12
Programming <i>Includes:</i> basic concepts, object-oriented programming in Java, HTML, CSS, JavaScript	12
Data and artificial intelligence <i>Includes:</i> SQL databases, data management, data science with Python, data modelling, machine learning	12
The company <i>Develops:</i> business management and intercultural communication skills as part of a company simulation	12
Integration project <i>Includes:</i> analysis and design with UML, version control with Git	12

YEAR 2

COURSES	ECTS
Infrastructure <i>Includes:</i> operating systems and scripting, security and encryption, virtualisation, containers, cloud computing	6
Programming & architecture <i>Includes:</i> design patterns, web technology, Spring, layered architecture, testing, application security, REST	18
Data and artificial intelligence <i>Includes:</i> data storage, No-SQL databases, computational complexity, business intelligence, data visualisation, reinforcement learning, deep learning	12
The company <i>Develops:</i> coaching, sales and project management skills as part of a company simulation	12
Integration project <i>Includes:</i> agile development, testing and continuous integration	12

YEAR 3

COURSES	ECTS
Programming <i>Includes:</i> enterprise architecture with spring microservices, front-end development with react security, testing	6
Data and Artificial intelligence <i>Includes:</i> data engineering, information retrieval, computational linguistics, natural language processing, reinforcement learning, deep learning, auto ML, ensemble methods, AI in gaming, AI in the cloud	12
The company <i>Develops:</i> strategic insight, performance management and leadership skills in intercultural teams and technical professions.	6
A Big picture <i>Includes:</i> a deeper understanding of today's societal challenges and the use of technology to deal with them	6
Integration project <i>Includes:</i> integrating Data & AI services in end-user applications, Quality Assurance	6
The lab <i>Includes:</i> trends and future technologies	9
Internship	15

