

BACHELOR OF COMPUTING



DURATION

4 Years

ACCREDITATION

HEA/ZAQA

ZQF

Level 7

MODE OF DELIVERY

Contact

INTRODUCTION

Our Bachelor of Computing degree will teach you the essential computing skills of troubleshooting and formulating viable solutions. You will learn to apply theoretical knowledge across various disciplines, integrating it into real-world scenarios while presenting best practices and solutions.

The practical assignments and projects you will complete are congruent with daily practices in the working world and will provide you with business-specific and soft skills. These include communication skills, customer satisfaction training, the ability to work as part of a team, and the ability to teach others.

In your fourth year, you will conduct academic research and present your findings in a formal dissertation. You will also have the remarkable opportunity to complete an internship at a national or international company.

This degree is supported by our Quality Assurance partner and Curriculum Advisor, Belgium Campus iTversity, ensuring the highest standards of excellence.

ADMISSION CRITERIA:

- **A high school certificate with a minimum of 5 subjects passed with 50% or more.**
- **English Language as a subject.**
- **Maths as a subject.**

Applications for Recognition of Prior Learning will be reviewed on a case-by-case basis and approved at the discretion of the University Senate.

Specialise in one of the following:

- Software Engineering
- Data Science



CURRICULA

SOFTWARE ENGINEERING SPECIALISATION

This specialisation will teach you to turn abstract ideas into practical applications that solve everyday problems. It will allow you to specialise in a range of disciplines, including software architecture, human experience design, data protection, systems integration, and many more.

In the working world, you will typically work alongside business intelligence specialists to formulate, conceptualise and create dynamic solutions for real-world problems. You will also work closely with software developers who assist in developing these functional solutions.

	YEAR 1	YEAR 2	YEAR 3	YEAR 4
CORE MODULES	Academic Writing 1 - ACW1 Computer Architecture 1 - COA1 Database Development 1 - DBD1 Information Systems 1 - INF1 Innovation and Leadership 1 - INL 1A - INL 1B Linear Programming 1 - LPR1 Mathematics 1 - MAT1 Networking Development 1 - NWD1 Programming 1 - PRG1A - PRG1B Statistics 1 - STA1 - Statistics 1 Web Programming 1 - WPR1	Software Analysis & Design 2 - SAD281 Database Development 2 - DBD2 Information Systems 2 - INF2 Linear Programming 2 - LPR2 Innovation and Leadership 2 - INL 2A - INL 2B Mathematics 2 - MAT2 Project Management 2 - PMM2 Internet Of Things 2 - IOT2 Programming 2 - PRG2A - PRG2B Statistics 2 - STA2 Web Programming 2 - WPR2	Programming 3 - PRG381 Software Engineering 3 - SEN381 Web Programming 3 - WPR381 Applied Research 3 - RSH3 Database Development 3 - DBD3 Innovation and Leadership 2 - INL 2A - INL 2B Linear Programming 3 - LPR3 Machine Learning 3 - MLG3A - MLG3B Project 3 - PRJ3 Project Management 3 - PMM3	Applied Information Technology 4 - AIT4A - AIT4B Thesis 4 - DST4
ELECTIVES	Business Management 1 - BUM181 or Entrepreneurship 1 - ENT181	Internet Of Things 2 - IOT281 or Software Testing 2 - SWT281	Innovation Management 3 - INM381 or Machine Learning 3 - MLG382 or User Experience Design 3 - UAX381	

DATA SCIENCE SPECIALISATION

This specialisation will give you in-depth knowledge of the processes and techniques used to transform data into information – an essential skill for effective decision-making in every organisation.

You will learn how to collect and organise data into large-scale data stores and warehouses, how to use mathematical and statistical analysis to develop sound business solutions based on this data, and how to present your findings in reports to stakeholders.

	YEAR 1	YEAR 2	YEAR 3	YEAR 4
CORE MODULES	Academic Writing 1 ▪ ACW1 Computer Architecture 1 ▪ COA1 Database Development 1 ▪ DBD1 Information Systems 1 ▪ INF1 Innovation and Leadership 1 ▪ INL 1A ▪ INL 1B Linear Programming 1 ▪ LPR1 Mathematics 1 ▪ MAT1 Networking Development 1 ▪ NWD1 Programming 1 ▪ PRG1A ▪ PRG1B Statistics 1 ▪ STA1 - Statistics 1 Web Programming 1 ▪ WPR1	Data Warehousing 2 ▪ DWH281 Database Development 2 ▪ DBD2 Information Systems 2 ▪ INF2 Linear Programming 2 ▪ LPR2 Innovation and Leadership 2 ▪ INL 2A ▪ INL 2B Mathematics 2 ▪ MAT2 Project Management 2 ▪ PMM2 Internet Of Things 2 ▪ IOT2 Programming 2 ▪ PRG2A ▪ PRG2B Statistics 2 ▪ STA2 Web Programming 2 ▪ WPR2	Data Science 3 ▪ BIN381 Database Administration 3 ▪ DBA381 Statistics 3 ▪ STA381 Applied Research 3 ▪ RSH3 Database Development 3 ▪ DBD3 Innovation and Leadership 2 ▪ INL 2A ▪ INL 2B Linear Programming 3 ▪ LPR3 Machine Learning 3 ▪ MLG3A ▪ MLG3B Project 3 ▪ PRJ3 Project Management 3 ▪ PMM3	Applied Information Technology 4 ▪ AIT4A ▪ AIT4B Thesis 4 ▪ DST4
ELECTIVES	Business Management 1 ▪ BUM181 or Entrepreneurship 1 ▪ ENT181	Internet Of Things 2 ▪ IOT281 or Software Testing 2 ▪ SWT281	Innovation Management 3 ▪ INM381 or Machine Learning 3 ▪ MLG382 or User Experience Design 3 ▪ UAX381	