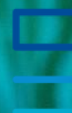


BECAUSE
DIVERSITY HAS
A PLACE TO
TAKE IN
DIGITAL
PROFESSIONS!

ULB



CONTINUING
EDUCATION
TECHNOLOGIES
AND SCIENCES

UNIVERSITÉ
LIBRE
DE BRUXELLES



VRIJE
UNIVERSITEIT
BRUSSEL

S.HE GOES DIGITAL

EXECUTIVE MASTER IN DIGITAL AND IT ESSENTIALS

January 2027 to June 2027

THE ASSETS

- Facilitate your access to positions in IT environment
- Immersion training: students learn from each other as much as from the lecturers.
- At the end of the training, an evaluation takes place for all courses and, if all successful, a ULB certificate is granted listing your ECTS and scores
- The student receives support from the instructor to succeed in case of unsuccessful evaluation.

TARGET AUDIENCE

- This program is dedicated to reskill or upskill people who want to start or continue their career in the IT field.
- No prior STEM background required.
- Adapted for people with professional activity wanting to reorient their career or for young graduates wanting to acquire IT skills on top of their education.
- Women are encouraged to apply and there is a guarantee of gender balance in the audience.

LEARNING OUTCOMES

IT TECHNICAL SKILLS:

- IT literacy
- Digital fluency
- Digital transformation essentials
- Application of basic coding

TRANSVERSAL SKILLS:

- Translate and bridge business to technology
- Manage and communicate on your projects in the digital era
- Feel comfortable in IT environments



PRACTICAL INFORMATION

The training will take place on the Brussels campus of the Université libre de Bruxelles (Campus de la Plaine and Campus du Solbosch) and campus of de Vrije universiteit Brussel.

Fee for employed: 3.800 €

Group fee (from the 4th participant onwards): 2.800 €

Unemployed : 2.500 €

Student : 2.500 €

Admissions are based on applications. Candidates must present a certificate of successful completion of an undergraduate degree or apply for a VAE.

This training does not give a status equivalent to a national student. Your enrollment is subject to a valid VISA for Belgium. Submitting an application for enrolment does not automatically grant you the right to obtain a VISA to enter Belgian territory

*A2 level of English required



Typical Roles Held by Our Graduates:

Application consultant, Account manager , Data protection officer, Data manager, Data scientist, Digital project manager, Digital business analyst, IT enterprise architect, IT recruiter, IT manager, IT project manager, IT consultant, IT helpdesk worker, IT teacher, Scrum master, Internet marketer, Content marketer, System administrator

A program in collaboration with :



fintalent **AGORIA**

PROGRAM

ACADEMIC COORDINATION: AN BRAEKEN (VUB) & Charles CUVELLIEZ (ULB)

MODULE 1 - Foundations (coord. Svitlana LUKITCHEVA) ^{5 ECTS}

- Computational thinking/philosophy
- Programming
- Problem-solving

MODULE 2 – Technology (coord. Yifan YANG) ^{5 ECTS}

- Intelligent hardware
- Developing a starter-level sensor system with Arduino platform (The technology stack incl. infrastructure (vert.)
- Cloud, XaaS, encryption & PKI, tooling

MODULE 3 – Artificial Intelligence & data (coord. Johan LOECKX) ^{5 ECTS}

- Hands-on module in line with market demand for profiles exploiting the potential of AI
- LLMs and RAG
- Agentic architectures
- How to build an app / workflow with AI (hands on)
- Use of external tools: Computer Vision & Machine Learning, Rule-based engines & hybrid AI architectures with the objective to reconcile strict (business) rules with probabilistic unstructured LLMs
- Security and Adversarial Hacking of AI (hands on)
- Legal, ethical and societal risks of AI and its governance

MODULE 4 – Cybersecurity (coord. An BRAEKEN) ^{5 ECTS}

- Data protection and data security
- Cybersecurity basics
- Network security
- SW security
- Risk management

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Université libre de Bruxelles

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1000 Bruxelles - Belgique

*Program in the process of accreditation for educational leave,
& requiring a minimum of subscriptions to launch



PROGRAM

MODULE 5 – Software Product Orchestration (coord. Jean-Pierre CUVELLIEZ)^{5 ECTS}

- Prototypal Business Software Development:
- Getting familiar with all the usual project phases in building a software product supporting the business operations of a company
- Interaction with all the involved parties in a software project.
- Hands-on training via prototyping a project from the ground up performing practical business- and (lightly, AI supported) technical related tasks.
- Solving potential project pitfalls and problems

MODULE 6 – Methodologies (coord. Ingvar Van Droogenbroeck)^{5 ECTS}

- Working in IT; Team diversity and group dynamics
- Innovation, product management and design thinking
- Project & program management, benefit realization
- Software development methodologies
- IT organisation and governance, processes and controls

MODULE 7 – Solving real-world issues using digital (coord. Marie-Mo VAEYENS)^{3 ECTS}

- Real-world applications in STEM fields
- Real-world applications in non-STEM fields
- Professional IT role models f/m/X

INTERNSHIP^{15 ECTS}

(Optional) internship of 12 weeks (possible at your employer, with a specific objective aligned with the objective of the Executive Master) with a final evaluation: 15 additional ECTS are granted in your certificate.

Learners have the opportunity to undertake an internship, with the search for a host company being their own responsibility.

