

SOURCE FILE

13,078 16,0267

IDENTIFICATION

PROFILES

6347-E45
25435-Y4457
457457-F9
6244-A79
1287-D8797
363657-C3975

SETTINGS

HISTORY

LOG

DOCUMENTS

NEW SETTINGS

NAME
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LAST NAME
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CODE
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HISTORY
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SPECIFIC FACTS
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PROFILE
79933-2B
NO PHOTO

MORE

DIGITAL BUSINESS

2 MASTER DEGREES IN 3-YEARS

2021-2022 by HEC Liège - Management School
& The Faculty of Applied Sciences



Digital Business

Master in Business Engineering and Master in Computer Science or in Computer Science & Engineering

Effectively developing digital literacy and skills to adapt to the ever evolving world of technology.

STRENGTHS OF THIS UNIQUE PROGRAM

- ▶ Offering full-fledged education in business and computer science
- ▶ Leading to two Master's degrees at the end of 3 years of exciting and intensive learning experience
- ▶ Optimizing the chances of stimulating employment after graduation
- ▶ Praised as a breakthrough by all our corporate partners

HARNESSING THE DIGITAL WORLD

Information technology has long been an essential support for business management. Nowadays, IT has become no less than central to the task as many activities are highly dependent on efficient information systems. These must be able to manage relations with customers or suppliers, support internal processes, deal with production planning, inventory, distribution and more.

Beyond offering support systems, digital technologies afford new economic opportunities and managerial challenges: designing new products, offering new services, building new revenue models, addressing new ethical questions, etc.

Not forgetting that many of the fastest growing new businesses are purely digital, i.e. offering exclusively dematerialized products and/or online services, such as matchmaking platforms, mobile apps, cloud facilities, storage and processing power, etc.

PROGRAM

It is a unique offering providing full fledged training in both Business and Computer science engineering in a 3 year intensive exciting program. The market will acknowledge you as an expert in each of these fields, and even more importantly, will prize this rare dual competency in digital business.

It is to be noted that transdisciplinary activities, included in the curriculum from the first year of the Master's program, ensure students' immersion in their bi-disciplinary environment.

TRANSDISCIPLINARITY

Far beyond juxtaposing skills, the transdisciplinary Master's degree means to foster new profiles bathed in a dual culture from the first year of the Master's degree.

Students are trained in cutting-edge subjects in a transversal way, which enables them to apprehend problems from an innovative angle.

APPLICATION

The transdisciplinary Master's program is available to students:

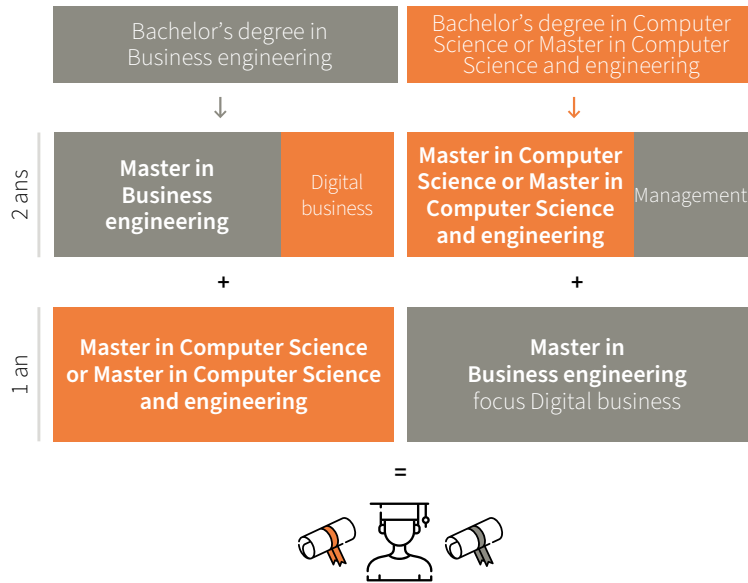
- ▶ holding a Bachelor's degree in Computer Science, Engineering or Business Engineering
- ▶ whose application have been approved by the admission jury

An online application form will be available on both faculties' websites by mid-March.

STUDENT'S CAREER PATH

The Digital Business program is aimed at students holding a Bachelor's degree in Business Engineering or in IT Civil Engineering or Computer Science. They pursue their study program with the 120-credit Master's degree in their initial discipline, supplemented by 30 credits for the other discipline.

Thanks to the valorization of the credits already acquired, these students obtain a second 120-credit Master's degree in the other discipline after just one year of study.



MASTER IN BUSINESS ENGINEERING Focus Digital Business	
Business Analytics	5
Information Technology Management	5
Preparation for Master Thesis and Internship	1
One level 4 language course or basic level 1	3
Erasmus or 28 credits HEC	
Change Management	5
Corporate Finance	5
Entrepreneurship & Innovation	3
International Business Engineering Seminar	5
International Marketing Seminar	5
Models & Methods in Applied Statistics	5
Choose one of the following courses :	
Elementary Language course 1	3
Environmental Management	3
International Strategy	3
Projets technologiques innovants	4
Software Development & Project Management	4
Focus	
Advanced Topics in Digital Business	5
Structures des données et algorithmes	5
Object-oriented programming	5

Ateliers de compétences	5
Master Thesis Methodology	2
Internship and Master Thesis	28
Business Ethics & Corporate Social Responsibility	4
One level 5 language course or basic level 2	3
Choose one of the following courses :	
Elementary Language course 2	3
International Performance Management	3
Introduction à l'entrepreneuriat familial	3
Seminar on Sustainability & Smart Territories	3
eBusiness and eCommerce	5
Focus	
Computation Structures	5
Database for Management	5
Introduction to Artificial Intelligence	5

MASTER IN COMPUTER SCIENCE OR MASTER IN COMPUTER SCIENCE AND ENGINEERING Focus Management	
Introduction to Computer Networking	5
Operating Systems	5
Introduction to Machine Learning	5
Introduction to the Theory of Computation	5
Software Project Engineering and Management	10
End of Studies Project	10
The courses of the focus «Computer Systems security» or «Intelligent Systems»	
	30

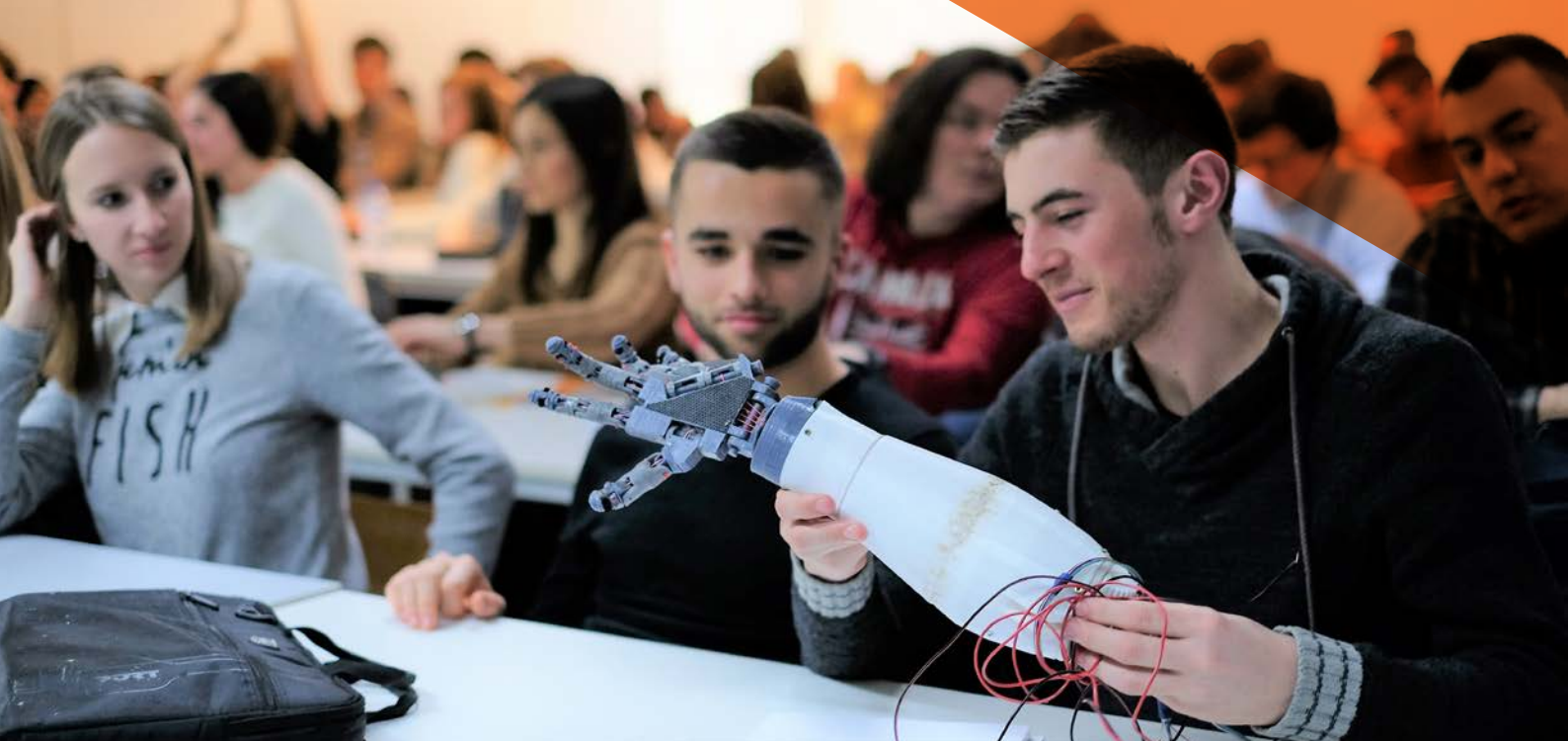
To get access to the master in Computer Science & Engineering, the business engineers must add to their cursus :

Analyse mathématique 1	4
Mécanique rationnelle	4
Introduction aux signaux et systèmes	5

MASTER IN COMPUTER SCIENCE OR MASTER IN COMPUTER SCIENCE AND ENGINEERING Focus Management	
Compilers	5
Introduction to machine Learning	5
Introduction to the Theory of Computation	5
Information and Coding Theory	5
Software Project Engineering and Management	10
Principles of Management	5
Operating Systems (only for engineering)	5
Choose credits of elective courses inside or outside the focus to complete the program of the block	
Focus	
Analyse des états financiers et Financement de l'entreprise	5
Comptabilité générale ou Technologies industrielles	5
Supply Chain Management	5

Master Thesis	24
Choose credits of elective courses inside or outside the focus to complete the program of the block	
Focus	
Business Simulation	2
Gestion stratégique des ressources humaines	5
Gestion juridique générale de l'entreprise	5
Dutch, German or Spanish	3

MASTER IN BUSINESS ENGINEERING Focus Digital Business	
Business Analytics	5
Change Management	5
Corporate Finance	5
Foreign language	3
Information Technology Management	5
Portfolio of Skills (SAP, SAS, ...)	5
International Marketing Seminar	5
Digital Business Capstone Project	5
The courses of the focus «Supply Chain Management & Business Analytics» or «Financial Engineering»	
	30



CONTACTS

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Avec le soutien de :

