

Cycle view of the study programme

B1 Or Th Pr Au Cr

Pre-requisite (B1 : 4Cr)

Notice : Students admitted on the basis of an application for the 'Science and Technology' focus may be requested, depending on their prior academic studies, to attend the following complementary courses:

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| GEST5001-1 | <i>Integration activities in science and technology - part 1</i> - Pierre DENEYE - [8d Proj.] | B1 | TA | - | - | [+] | 2 |
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| GEST5002-1 | <i>Integration activities in science and technology - part 2</i> - Pierre DENEYE - [8d Proj.] | B1 | TA | - | - | [+] | 2 |
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Notice : students admitted on the basis of an application at the end of the Digital Business track of the Supply Chain Management and Business Analytics focus may be requested, depending on their prior academic studies, to attend the following complementary courses:

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| GEST5003-1 | <i>Integration activities in digital business - part 1</i> - Michael SCHYNS - [8d Proj.] | B1 | TA | - | - | [+] | 2 |
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| GEST5004-1 | <i>Integration activities in digital business - part 2</i> - Michael SCHYNS - [8d Proj.] | B1 | TA | - | - | [+] | 2 |
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Compulsory courses (B1 : 11Cr, B2 : 11Cr)

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| INFO2048-1 | <i>Business Analytics</i> (english language) - Michael SCHYNS | B1 | Q2 | 30 | - | - | 5 |
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| INFO0934-8 | <i>Information Technology Management</i> (english language) - Ashwin ITTOO | B1 | Q2 | 30 | - | - | 5 |
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| GEST6001-1 | <i>Preparation for Master Thesis and Internship</i> (english language) - Stéphanie AERTS, Sophie LERUTH | B1 | Q2 | 10 | - | - | 1 |
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| GPRO0002-1 | <i>Skills workshops</i> - David HOMBURG, Giseline RONDEAUX | B2 | TA | - | - | - | 5 |
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| GEST3753-1 | <i>Business Ethics and Corporate Social Responsibility</i> (english language) - Virginie XHAUFLAIR | B2 | Q1 | 24 | - | - | 4 |
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| GEST7004-1 | <i>Master Thesis Methodology</i> (english language) - Frédéric DUFAYS | B2 | Q1 | 12 | - | - | 2 |
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Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

Optional courses (B1 : 49Cr, B2 : 49Cr)

Choose one of the following modules : (B1 : 28Cr)

Module 1 (aimed at internationally mobile students) (B1 : 28Cr)

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| ERAS0017-1 | <i>Erasmus HEC (MIG)</i> - N... | B1 | | - | - | - | 28 |
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Module 2 (B1 : 28Cr)

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| GEST3752-1 | <i>Change Management</i> (english language) - Olivier LISEIN | B1 | Q1 | 30 | 10 | - | 5 |
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| FINA0050-1 | <i>Corporate Finance - Lectures and Seminars</i> (english language) - Marie LAMBERT - Suppl : Alexandre SCIVOLETTO | B1 | Q1 | 30 | - | - | 5 |
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| GEST3754-1 | <i>Entrepreneurship and Innovation</i> (english language) - Frédéric DUFAYS | B1 | Q1 | 18 | - | - | 3 |
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| GEST6003-1 | <i>International Business Engineering Seminar</i> (english language) - Yasemin ARDA, Mustafa Celebi PINAR | B1 | Q1 | 30 | - | - | 5 |
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| MARK9302-1 | <i>International Marketing Seminar</i> (english language) - Ioannis ASSIOURAS, Claire GRUSLIN | B1 | Q1 | 30 | - | - | 5 |
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| STAT0800-1 | <i>Models and Methods in Applied Statistics</i> (english language) - Cédric HEUCHENNE | B1 | Q1 | 30 | - | - | 5 |
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Choose courses for a total of 28 credits among: (B2 : 28Cr)

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| GTFE8003-1 | <i>Project-Thesis</i> | B2 | TA | - | - | - | 28 |
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Study programmes 2023-2024

HEC Management School - University of Liege

Master in business engineering (120 ECTS)

Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

GTFE0014-1 *Research-Thesis* B2 TA - - - **18**

Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

GSTG0016-1 *Internship* B2 Q2 - - - **10**

GTFE9005-1 *Intrapreneurial Thesis* (english language) B2 TA - - - **18**

Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

GEST3759-1 *Strategic, Organizational and Information System Audits* (english language) - Olivier LISEIN - [200h AUTR] B2 TA 24 - [+] **10**

Corequisite :

GEST3767-1 - Consultant Roles and Responsibilities

GEST3766-1 - Project and Change Management

GEST3764-1 - Innovation Project Definition and Development (partim II)

GEST3050-1 - Creativity and stimulation of collective intelligence

Notice : GTFE9005-1 and GEST3759-1 courses are compulsory and only accessible to students enrolled in the Intrapreneurship and Management of Innovation Projects focus.

Choose two courses out of the following : (B1 : 3Cr, B2 : 3Cr)

[...] One level 4 course or basic level 1

LANG1925-1 *German 4* (german language) - Marie MAWHIN B1 Q2 30 - - **3**

LANG1926-1 *Advanced German 4* (german language) - Laurent GIANOTTI B1 Q2 30 - - **3**

LANG1933-1 *Elementary German 1* - Marie MAWHIN B1 TA 30 - - **3**

LANG9913-1 *Chinese 4* (english language) B1 Q2 30 - - **3**

LANG6009-1 *Elementary Chinese 1* (english language) - Rachel DELCOURT B1 Q2 30 - - **3**

LANG1927-1 *Spanish 4* (spanish language) - Alba BALLESTA MARTÍNEZ B1 Q2 30 - - **3**

LANG1928-1 *Advanced Spanish 4* (spanish language) - Alexis ALVAREZ BARBOSA B1 Q2 30 - - **3**

LANG1934-1 *Elementary Spanish 1* - Alexis ALVAREZ BARBOSA, Alba BALLESTA MARTÍNEZ B1 TA 30 - - **3**

LANG1929-1 *(Advanced) Italian 4* (italian language) - Alex BARDASCINO B1 Q2 30 - - **3**

LANG6010-1 *Elementary Italian 1* - Alex BARDASCINO B1 Q2 30 - - **3**

LANG1932-1 *Dutch 4* (dutch language) - Wannes DUPONCHEEL, Nicole ENGELEN B1 Q2 30 - - **3**

LANG1936-1 *Elementary Dutch 1* - Fanny NSITA B1 Q2 30 - - **3**

LANG1954-1 *French beginner level 1* - ISLV, Marielle MARÉCHAL B1 Q2 30 - - **3**

Notice : the course LANG1954-1 is only open to non-French speaking foreign students

[...] One level 5 course or basic level 2

LANG1938-1 *German 5* (german language) - Marie MAWHIN B2 Q1 30 - - **3**

LANG1939-1 *Advanced German 5* (german language) - Laurent GIANOTTI B2 Q1 30 - - **3**

LANG1945-1 *Elementary German 2* - Laurent GIANOTTI B2 Q1 30 - - **3**

LANG9919-1 *Chinese 5* - Fang DONG B2 Q1 30 - - **3**

Prerequisite :

LANG9913-1 - Chinois 4

LANG7002-1 *Elementary Chinese 2* (english language) - Fang DONG B2 Q1 30 - - **3**

Prerequisite :

LANG6009-1 - Chinois élémentaire 1

Study programmes 2023-2024

HEC Management School - University of Liege

Master in business engineering (120 ECTS)

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| LANG1940-1 | <i>Spanish 5</i> (spanish language) - Cristina ALONSO MARTIN | B2 | Q1 | 30 | - | - | 3 |
| LANG1941-1 | <i>Advanced Spanish 5</i> (spanish language) - Alba BALLESTA MARTÍNEZ | B2 | Q1 | 30 | - | - | 3 |
| LANG1946-1 | <i>Elementary Spanish 2</i> - Véronique PEIFFER Prerequisite : LANG1934-1 - Espagnol élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG1942-1 | <i>(Advanced) Italian 5</i> (italian language) - Alex BARDASCINO | B2 | Q1 | 30 | - | - | 3 |
| LANG7003-1 | <i>Elementary Italian 2</i> - Alex BARDASCINO Prerequisite : LANG6010-1 - Italien élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG1950-1 | <i>Dutch 5</i> (dutch language) - Wannes DUPONCHEEL, Nicole ENGELEN | B2 | Q1 | 30 | - | - | 3 |
| LANG1948-1 | <i>Elementary Dutch 2</i> (dutch language) - Fanny NSITA Prerequisite : LANG1936-1 - Néerlandais élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG1955-1 | <i>French beginner level 2</i> - ISLV, Marielle MARÉCHAL Prerequisite : LANG1954-1 - French beginner level 1 | B2 | Q1 | 30 | - | - | 3 |

Choose one of the following courses : (B1 : 3Cr)

Notice : students can only have one elementary level 1 language class in their master's programme

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| LANG1933-1 | <i>Elementary German 1</i> - Marie MAWHIN | B1 | TA | 30 | - | - | 3 |
| LANG6009-1 | <i>Elementary Chinese 1</i> (english language) - Rachel DELCOURT | B1 | Q2 | 30 | - | - | 3 |
| LANG1934-1 | <i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA, Alba BALLESTA MARTÍNEZ | B1 | TA | 30 | - | - | 3 |
| LANG6010-1 | <i>Elementary Italian 1</i> - Alex BARDASCINO | B1 | Q2 | 30 | - | - | 3 |
| LANG1936-1 | <i>Elementary Dutch 1</i> - Fanny NSITA | B1 | Q2 | 30 | - | - | 3 |
| GEST3047-1 | <i>Environmental Management</i> (english language) - Michaël TANS | B1 | Q1 | 18 | - | - | 3 |
| GEST3029-1 | <i>International Strategy</i> (english language) - Nathalie CRUTZEN, Anthony SANTINO | B1 | Q2 | 18 | - | - | 3 |
| TECH0003-4 | <i>Innovative technology projects</i> - Pierre DENEYE | B1 | Q2 | 24 | - | - | 4 |
| ECON2306-1 | (pas organisé en 2023-2024) <i>Data Management</i> (english language) - Malka GUILLOT | B1 | Q2 | 30 | - | - | 5 |

Choose one of the following courses : (B2 : 3Cr)

Notice : a student who has chosen an Elementary language 1 course in Block 1 must necessarily continue the chosen language and take the corresponding Elementary language 2 course.

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| LANG1945-1 | <i>Elementary German 2</i> - Laurent GIANOTTI Prerequisite : LANG1933-1 - Allemand élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG7002-1 | <i>Elementary Chinese 2</i> (english language) - Fang DONG Prerequisite : LANG6009-1 - Chinois élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG1946-1 | <i>Elementary Spanish 2</i> - Véronique PEIFFER Prerequisite : LANG1934-1 - Espagnol élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG7003-1 | <i>Elementary Italian 2</i> - Alex BARDASCINO Prerequisite : LANG6010-1 - Italien élémentaire 1 | B2 | Q1 | 30 | - | - | 3 |
| LANG1948-1 | <i>Elementary Dutch 2</i> (dutch language) - Fanny NSITA | B2 | Q1 | 30 | - | - | 3 |

Prerequisite :

LANG1936-1 - Néerlandais élémentaire 1

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| GEST5008-1 | (pas organisé en 2023-2024) <i>Project Management</i> (english language) | B2 | Q1 | 18 | - | - | 3 |
| FINA0083-1 | <i>Organizational Business Model Design</i> (english language) - Didier VAN CAILLIE | B2 | Q1 | 18 | - | - | 3 |
| GEST3782-1 | <i>Introduction to family business entrepreneurship</i> - Nathalie CRUTZEN, Laurent WEERTS | B2 | Q1 | 18 | - | - | 3 |
| GEST1076-1 | <i>Seminar on Sustainability and Smart Territories</i> (english language) - Nathalie CRUTZEN | B2 | Q1 | 18 | - | - | 3 |
| GEST3032-1 | <i>eBusiness and eCommerce</i> (english language) - Ashwin ITTOO | B2 | Q1 | 30 | - | - | 5 |
| Prerequisite : | | | | | | | |
| INFO0934-8 - Information Technology Management | | | | | | | |
| GEST3050-1 | <i>Creativity and stimulation of collective intelligence</i> (english language) - Deniz BOGA | B2 | Q2 | 18 | 50 | - | 3 |
| Corequisite : | | | | | | | |
| GEST3767-1 - Consultant Roles and Responsibilities | | | | | | | |
| GEST3766-1 - Project and Change Management | | | | | | | |
| GEST3764-1 - Innovation Project Definition and Development (partim II) | | | | | | | |
| GEST3759-1 - Strategic, Organizational and Information System Audits | | | | | | | |

Notice : this course is compulsory and only open to students of the professional focus in Intrapreneurship and Management of Innovation Projects

[...] Optional course among those in the Master in Engineering Management degree

Choose one focus from the following : (B1 : 15Cr, B2 : 15Cr)

Professional focus in Supply Chain Management and Business Analytics (B1 : 15Cr, B2 : 15Cr)

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| MQGE0002-3 | <i>Computational Optimization</i> (english language) - Bernard FORTZ | B1 | Q2 | 30 | - | - | 5 |
| LOGI0012-1 | <i>Logistics and Transportation</i> (english language) - Sabine LIMBOURG | B1 | Q2 | 30 | - | - | 5 |
| LOGI0013-1 | <i>Operation Planning</i> (english language) - Yasemin ARDA | B1 | Q2 | 30 | - | - | 5 |
| LOGI0016-1 | <i>Quality, Ethics and Sustainability in Supply Chain Management</i> (english language) - Morgane DUMONT, Célia PAQUAY, Virginie XHAUFLAIR | B2 | Q1 | 30 | - | - | 5 |

Choose two courses out of the following : (B2 : 10Cr)

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| LOGI0017-1 | <i>Distribution Management</i> (english language) - Sabine LIMBOURG | B2 | Q1 | 30 | - | - | 5 |
| LOGI0015-1 | <i>ERP Solutions for Supply Chains</i> (english language) - Yasemin ARDA, Véronique FRANÇOIS | B2 | Q1 | 30 | - | - | 5 |
| Prerequisite : | | | | | | | |
| LOGI0012-1 - Logistics and Transportation | | | | | | | |
| INFO2049-1 | <i>Web and Text Analytics</i> (english language) - Ashwin ITTOO | B2 | Q1 | 30 | - | - | 5 |
| Prerequisite : | | | | | | | |
| INFO2048-1 - Business Analytics | | | | | | | |

Professional focus in digital business (B1 : 15Cr, B2 : 15Cr)

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| INFO9003-1 | <i>Advanced Topics in Digital Business</i> (english language) - Ashwin ITTOO | B1 | Q2 | 30 | - | - | 5 |
| INFO0062-1 | <i>Object-oriented programming</i> (english language) - Bernard BOIGELOT - [20h Proj.] | B1 | Q2 | 25 | 20 | [+] | 5 |
| INFO0902-1 | <i>Data structures and algorithms</i> - Pierre GEURTS - [40h Proj.] | B1 | Q2 | 26 | 20 | [+] | 5 |
| INFO8006-1 | <i>Introduction to artificial intelligence</i> (english language) - Gilles LOUPPE - [45h Proj.] | B2 | Q1 | 25 | 20 | [+] | 5 |

Study programmes 2023-2024

HEC Management School - University of Liege

Master in business engineering (120 ECTS)

Prerequisite :

INFO0902-1 - Structures des données et algorithmes

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| INFO9017-1 | <i>Database for management</i> (english language) - Siamak KHAYYATI | B2 | Q1 | 30 | - | - | 5 |
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Choose one of the following courses : (B2 : 5Cr)

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| INFO0010-4 | <i>Introduction to computer networking</i> (english language) - Guy LEDUC - [12h Labo., 40h Proj.] | B2 | Q1 | 32 | 2 | [+] | 5 |
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| GEST7064-1 | <i>Digita Business Capstone Project</i> - Ashwin ITTOO, Michael SCHYNS | B2 | TA | 15 | 15 | - | 5 |
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Prerequisite :

INFO0062-1 - Object-oriented programming

Professional focus in Financial Engineering (B1 : 15Cr, B2 : 15Cr)

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| FINA0052-1 | <i>Financial Derivatives</i> (english language) - Fabien BONIVER, Julien HAMBUCKERS | B1 | Q2 | 30 | - | - | 5 |
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| MQGE0007-1 | <i>Financial Mathematics and Stochastic Calculus</i> (english language) - Elise VANDOMME | B1 | Q2 | 30 | - | - | 5 |
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| FINA0053-1 | <i>Investments and Portfolio Management</i> (english language) - Georges HÜBNER | B1 | Q2 | 30 | - | - | 5 |
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| FINA0064-1 | <i>Financial Risk Modeling</i> (english language) - Julien HAMBUCKERS | B2 | Q1 | 30 | - | - | 5 |
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Choose two courses out of the following : (B2 : 10Cr)

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| FINA0065-1 | <i>Advanced Corporate Finance and Modeling</i> (english language) - Marie LAMBERT - Suppl : Jürgen HANSSSENS, Alexandre SCIVOLETTO | B2 | Q1 | 30 | - | - | 5 |
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Prerequisite :

FINA0053-1 - Investments and Portfolio Management

FINA0052-1 - Financial Derivatives

FINA0050-1 - Corporate Finance - Lectures and Seminars

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| FINA0085-1 | <i>Ethics, Regulation and Compliance in Finance</i> (english language) - Yves FRANCIS | B2 | Q1 | 30 | - | - | 5 |
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| FINA0063-1 | <i>Advanced Statistical Methods in Finance</i> (english language) - Julien HAMBUCKERS | B2 | Q1 | 30 | - | - | 5 |
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| FINA0060-1 | <i>Empirical Methods in Financial Markets - Theory and Applications</i> (english language) - Cédric HEUCHENNE | B2 | Q1 | 30 | - | - | 5 |
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| FINA9013-1 | <i>Strategic Financial Analysis</i> (english language) - Marie LAMBERT - [30h AUTR] | B2 | Q1 | - | - | [+] | 5 |
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Notice : access on file

Professional focus in Sustainable Performance Management (B1 : 15Cr, B2 : 15Cr)

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| FINA0011-2 | <i>Audit</i> (english language) - Yves FRANCIS | B1 | Q2 | 30 | - | - | 5 |
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| FINA0061-1 | <i>Business Modeling, Control and Planning</i> (english language) - Didier VAN CAILLIE | B1 | Q2 | 30 | - | - | 5 |
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Choose four of the following courses : (B1 : 5Cr, B2 : 15Cr)

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| FINA0030-1 | <i>Consolidation and IFRS</i> (english language) - Patrice SCHUMESCH | B1 | Q2 | 30 | - | - | 5 |
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| FINA9001-1 | <i>Sustainable Management Control</i> (english language) - Nathalie CRUTZEN | B1 | Q2 | 30 | - | - | 5 |
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| FINA9028-1 | <i>Contemporary Issues in Financial Analysis</i> (english language) - Wouter TORSIN | B1 | Q2 | 30 | - | - | 5 |
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| FINA0057-1 | <i>Advanced taxation</i> - Isabelle RICHELLE | B2 | Q1 | 30 | - | - | 5 |
| FINA0028-5 | <i>International Finance</i> (english language) - Caterina SANTI | B2 | Q1 | 30 | - | - | 5 |
| GEST3758-1 | <i>Performance Assessment</i> (english language) - Didier VAN CAILLIE Prerequisite : FINA0061-1 - Business Modeling, Control and Planning | B2 | Q1 | 30 | - | - | 5 |
| FINA0008-2 | <i>Resilience Engineering</i> (english language) - Didier VAN CAILLIE Prerequisite : FINA0061-1 - Business Modeling, Control and Planning | B2 | Q1 | 30 | - | - | 5 |
| FINA0044-5 | (pas organisé en 2023-2024) <i>Strategic Performance Management</i> (english language) | B2 | Q1 | 30 | - | - | 5 |

Professional focus in Intrapreneurship and Management of Innovation Projects (B1 : 15Cr, B2 : 15Cr)

Notice : Registration only with a file (see admission conditions)

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| ECON2275-1 | <i>Economics of Innovation</i> (english language) - Lionel ARTIGE | B1 | Q2 | 30 | - | - | 5 |
| GEST3755-1 | <i>Innovation Project Definition and Development (partim I)</i> (english language) - Olivier LISEIN - [100h AUTR] | B1 | Q2 | 18 | - | [+] | 5 |
| GEST3757-1 | <i>Strategy and Business Model Generation</i> (english language) - Frédéric OOMS - [100h AUTR] | B1 | Q2 | 18 | - | [+] | 5 |
| GEST3767-1 | <i>Consultant Roles and Responsibilities</i> (english language) - François PICHAULT, Giseline RONDEAUX - [80h AUTR] Corequisite : GEST3766-1 - Project and Change Management GEST3764-1 - Innovation Project Definition and Development (partim II) GEST3050-1 - Creativity and stimulation of collective intelligence GEST3759-1 - Strategic, Organizational and Information System Audits | B2 | Q2 | 18 | - | [+] | 4 |
| GEST3764-1 | <i>Innovation Project Definition and Development (partim II)</i> (english language) - Olivier LISEIN - [100h AUTR] Prerequisite : GEST3755-1 - Innovation Project Definition and Development (partim I) Corequisite : GEST3767-1 - Consultant Roles and Responsibilities GEST3766-1 - Project and Change Management GEST3050-1 - Creativity and stimulation of collective intelligence GEST3759-1 - Strategic, Organizational and Information System Audits | B2 | Q1 | 18 | - | [+] | 5 |
| GEST3766-1 | <i>Project and Change Management</i> (english language) - Olivier LISEIN - [100h AUTR] Corequisite : GEST3767-1 - Consultant Roles and Responsibilities GEST3764-1 - Innovation Project Definition and Development (partim II) GEST3050-1 - Creativity and stimulation of collective intelligence GEST3759-1 - Strategic, Organizational and Information System Audits | B2 | Q2 | 18 | - | [+] | 6 |

Professional focus in Sciences and technologies (B1 : 15Cr, B2 : 15Cr)

Notice : Registration only with a file (see admission conditions)

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|------------|----------------------------------------------------------------------------|----|----|----|---|---|---|
| HULG9280-1 | <i>Industrial chemistry</i> - Sophie PIRARD | B1 | Q2 | 35 | - | - | 3 |
| HULG9282-1 | <i>Logical systems</i> - Nathalie VETCOUR | B1 | Q2 | 50 | - | - | 4 |
| HULG9281-1 | <i>Technical drawing and Computer Aided Design (CAD)</i> - Pierre ERNST | B1 | Q2 | 55 | - | - | 5 |
| HULG9283-1 | <i>Technology and machining</i> - Bernard RAUSIN | B1 | Q2 | 45 | - | - | 3 |
| HULG9277-1 | <i>Structures analysis</i> - Clara HUVELLE | B2 | Q1 | 55 | - | - | 5 |
| HULG9276-1 | <i>Electrical engineering</i> - Pierre GABRIEL | B2 | Q1 | 35 | - | - | 3 |

Study programmes 2023-2024
HEC Management School - University of Liege
Master in business engineering (120 ECTS)

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|------------|------------------------------------------------|----|----|----|---|---|----------|
| HULG9279-1 | <i>Telecommunications</i> - Frédéric SENNY | B2 | Q1 | 45 | - | - | 3 |
| HULG9278-1 | <i>Applied thermodynamics</i> - Vincent KELNER | B2 | Q1 | 40 | - | - | 4 |