

#### 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:

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:

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)

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)

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

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)

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)

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 <b>Prerequisite :</b> 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 <b>Prerequisite :</b> 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 <b>Prerequisite :</b> LANG1936-1 - Néerlandais élémentaire 1	B2	Q1	30	-	-	3
LANG1955-1	<i>French beginner level 2</i> - ISLV, Marielle MARÉCHAL <b>Prerequisite :</b> 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

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.

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

# Study programmes 2023-2024

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

**Prerequisite :**

LANG1936-1 - Néerlandais élémentaire 1

GEST5008-1	(pas organisé en 2023-2024) <i>Project Management</i> (english language)	B2	Q1	18	-	-	<b>3</b>
FINA0083-1	<i>Organizational Business Model Design</i> (english language) - Didier VAN CAILLIE	B2	Q1	18	-	-	<b>3</b>
GEST3782-1	<i>Introduction to family business entrepreneurship</i> - Nathalie CRUTZEN, Laurent WEERTS	B2	Q1	18	-	-	<b>3</b>
GEST1076-1	<i>Seminar on Sustainability and Smart Territories</i> (english language) - Nathalie CRUTZEN	B2	Q1	18	-	-	<b>3</b>
GEST3032-1	<i>eBusiness and eCommerce</i> (english language) - Ashwin ITTOO	B2	Q1	30	-	-	<b>5</b>
<b>Prerequisite :</b>							
INFO0934-8 - Information Technology Management							
GEST3050-1	<i>Creativity and stimulation of collective intelligence</i> (english language) - Deniz BOGA	B2	Q2	18	50	-	<b>3</b>
<b>Corequisite :</b>							
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)**

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

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

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

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

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

# Study programmes 2023-2024

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

**Prerequisite :**

INFO0902-1 - Structures des données et algorithmes

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)

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)**

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)

FINA0065-1	<i>Advanced Corporate Finance and Modeling</i> (english language) - Marie LAMBERT - Suppl : Jürgen HANSSENS, 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

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)**

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)

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 <b>Prerequisite :</b> FINA0061-1 - Business Modeling, Control and Planning	B2	Q1	30	-	-	5
FINA0008-2	<i>Resilience Engineering</i> (english language) - Didier VAN CAILLIE <b>Prerequisite :</b> 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)

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] <b>Corequisite :</b> 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] <b>Prerequisite :</b> GEST3755-1 - Innovation Project Definition and Development (partim I) <b>Corequisite :</b> 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] <b>Corequisite :</b> 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)

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)

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