

#### Block view of the study programme

Or Th Pr Au Cr

#### Block 1

##### Pre-requisite

*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 *Integration activities in science and technology - part 1* - Pierre DENEYE - [8d Proj.] TA - - [+] 2

GEST5002-1 *Integration activities in science and technology - part 2* - Pierre DENEYE - [8d Proj.] TA - - [+] 2

*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 *Integration activities in digital business - part 1* - Michael SCHYNS - [8d Proj.] TA - - [+] 2

GEST5004-1 *Integration activities in digital business - part 2* - Michael SCHYNS - [8d Proj.] TA - - [+] 2

##### Compulsory courses

INFO2048-1 *Business Analytics* (english language) - Michael SCHYNS Q2 30 - - 5

INFO0934-8 *Information Technology Management* (english language) - Samedi HENG, Ashwin ITTOO Q2 30 - - 5

GEST6001-1 *Preparation for Master Thesis and Internship* (english language) - Stéphanie AERTS, Sophie LERUTH Q2 10 - - 1

##### Optional courses

Choose one of the following modules :

##### Module 1 (aimed at internationally mobile students)

ERAS0017-1 *Erasmus HEC (MIG)* - N... - - - 28

##### Module 2

GEST3752-1 *Change Management* (english language) - Olivier LISEIN Q1 30 - - 5

FINA0050-1 *Corporate Finance - Lectures and Seminars* (english language) - Marie LAMBERT Q1 30 - - 5

GEST3754-1 *Entrepreneurship and Innovation* (english language) - Frédéric OOMS Q1 18 - - 3

GEST6003-1 *International Business Engineering Seminar* (english language) - Yasemin ARDA, Alper SEN Q1 30 - - 5

MARK9302-1 *International Marketing Seminar* (english language) - Claire GRUSLIN, Benjamin ÖSTERLE Q1 30 - - 5

STAT0800-1 *Models and Methods in Applied Statistics* (english language) - Cédric HEUCHENNE Q1 30 - - 5

Select 1 language course out of the following :

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

*Notice* : access to basic-level language courses is subject to a number of requirements - see the HEC regulations

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

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

LANG1933-1 *Elementary German 1* - Marie MAWHIN Q2 30 - - 3

LANG6009-1	<i>Elementary Chinese 1</i> - Fang DONG, Chao MENG	Q2	30	-	-	3
LANG1927-1	<i>Spanish 4</i> (spanish language) - Alexis ALVAREZ BARBOSA, Alba CARVAJAL LAGAREJO	Q2	30	-	-	3
LANG1928-1	<i>Advanced Spanish 4</i> (spanish language) - Alexis ALVAREZ BARBOSA	Q2	30	-	-	3
LANG1934-1	<i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA	TA	30	-	-	3
LANG1954-1	<i>French beginner level 1</i> - ISLV, Marielle MARÉCHAL	Q2	30	-	-	3
LANG1929-1	<i>(Advanced) Italian 4</i> (italian language) - Christine HANON	Q2	30	-	-	3
LANG6010-1	<i>Elementary Italian 1</i> - Alex BARDASCINO	Q2	30	-	-	3
LANG1932-1	<i>Advanced Dutch 4</i> (dutch language) - Nicole ENGELEN, Lutgarde NACHTERGAELE	Q2	30	-	-	3
LANG1936-1	<i>Elementary Dutch 1</i> - Stéphane GHIJSEN, Isabelle VAN DEN HOVE	TA	30	-	-	3

Choose one of the following courses :

LANG1933-1	<i>Elementary German 1</i> - Marie MAWHIN	Q2	30	-	-	3
LANG6009-1	<i>Elementary Chinese 1</i> - Fang DONG, Chao MENG	Q2	30	-	-	3
LANG1934-1	<i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA	TA	30	-	-	3
LANG6010-1	<i>Elementary Italian 1</i> - Alex BARDASCINO	Q2	30	-	-	3
LANG1936-1	<i>Elementary Dutch 1</i> - Stéphane GHIJSEN, Isabelle VAN DEN HOVE	TA	30	-	-	3

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

GEST3047-1	<i>Environmental Management</i> (english language) - Michaël TANS	Q1	18	-	-	3
GEST3029-1	<i>International Strategy</i> (english language) - Nathalie CRUTZEN, Anthony SANTINO	Q2	18	-	-	3
TECH0003-4	<i>Innovative technology projects</i> - Pierre DENEYE	Q2	24	-	-	4
INFO9002-1	<i>Software Development and Project Management</i> (english language) - Samedi HENG	Q2	24	-	-	4

**Choose one focus from the following :**

#### Professional focus in Supply Chain Management and Business Analytics

MQGE0002-3	<i>Computational Optimization</i> (english language) - Yves CRAMA	Q2	30	-	-	5
LOGI0012-1	<i>Logistics and Transportation</i> (english language) - Sabine LIMBOURG	Q2	30	-	-	5
LOGI0013-1	<i>Operation Planning</i> (english language) - Yasemin ARDA	Q2	30	-	-	5

#### Professional focus in digital business

*Notice* : Registration only with a file

INFO9003-1	<i>Advanced Topics in Digital Business</i> (english language) - Ashwin ITTOO	Q2	30	-	-	5
INFO0009-2	<i>Database (general organisation)</i> - Samuel HIARD - [25h Proj.]	Q2	26	26	[+]	5
INFO0062-1	<i>Object-oriented programming</i> (english language) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	5

#### Professional focus in Financial Engineering

FINA0052-1	<i>Financial Derivatives</i> (english language) - Julien HAMBUECKERS	Q2	30	-	-	5
MQGE0007-1	<i>Financial Mathematics and Stochastic Calculus</i> (english language) - Célia PAQUAY	Q2	30	-	-	5
FINA0053-1	<i>Investments and Portfolio Management</i> (english language) - Georges HÜBNER	Q2	30	-	-	5

# Study programmes 2020-2021

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

#### Professional focus in Sustainable Performance Management

FINA0011-2	<i>Audit</i> (english language) - Yves FRANCIS	Q2	30	-	-	5
FINA0061-1	<i>Business Modeling, Control and Planning</i> (english language) - Didier VAN CAILLIE	Q2	30	-	-	5

Choose one of the following courses :

FINA0030-1	<i>Consolidation and IFRS</i> (english language) - Patrice SCHUMESCH	Q2	30	-	-	5
FINA9001-1	<i>Sustainable Management Control</i> (english language) - Nathalie CRUTZEN	Q2	30	-	-	5

#### Professional focus in Intrapreneurship and Management of Innovation Projects

*Notice* : Registration only with a file

ECON2275-1	<i>Economics of Innovation</i> (english language) - Lionel ARTIGE	Q2	30	-	-	5
GEST3755-1	<i>Innovation Project Definition and Development (partim I)</i> (english language) - Olivier LISEIN - [100h AUTR]	Q2	18	-	[+]	5
GEST3757-1	<i>Strategy and Business Model Generation</i> (english language) - Didier VAN CAILLIE - [100h AUTR]	Q2	18	-	[+]	5

#### Professional focus in Sciences and technologies

*Notice* : Accessible on application file (see admission conditions)

HULG9280-1	<i>Industrial chemistry</i> - Sophie PIRARD	Q2	35	-	-	3
HULG9282-1	<i>Logical systems</i> - Nathalie VETCOUR	Q2	50	-	-	4
HULG9281-1	<i>Graphic techniques</i> - Pierre ERNST, Etienne LEGRAND	Q2	55	-	-	5
HULG9283-1	<i>Technology and machining</i> - Bernard RAUSIN	Q2	45	-	-	3

#### Professional focus in management and technologies

*Notice* : Accessible on application file (see admission conditions)

FINA0092-1	<i>Financial Analysis and Corporate Financing</i> (english language) - Wouter TORSIN	Q2	45	-	-	5
FINA0091-1	<i>Market Finance in EU</i> (english language) - Patrick BROCHÉ, Georges HÜBNER	Q2	40	15	-	5
LOGI0010-1	<i>Supply Chain Management</i> (english language) - Yasemin ARDA	Q2	45	-	-	5

#### Block 2

##### Compulsory courses

GPRO0002-1	<i>Skills workshops</i> - David HOMBURG, Giseline RONDEAUX	TA	-	-	-	5
GEST3753-1	<i>Business Ethics and Corporate Social Responsibility</i> (english language) - Virginie XHAUFLAIR	Q1	24	-	-	4

##### Optional courses

Choose courses for a total of 28 credits among:

GTFE8003-1	<i>Project-Thesis</i> <b>Prerequisite :</b> GEST6001-1 - Preparation for Master Thesis and Internship	TA	-	-	-	28
GTFE0014-1	<i>Research-Thesis</i> <b>Prerequisite :</b> GEST6001-1 - Preparation for Master Thesis and Internship	TA	-	-	-	18
GSTG0016-1	<i>Internship</i>	Q2	-	-	-	10
GEST1114-1	<i>Transdisciplinary project</i> - AnneChristine CADIAT, Anne CHANTEUX,	TA	-	-	-	10

# Study programmes 2020-2021

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

Thierry PIRONET

*Notice* : The multi-disciplinary project is compulsory and only accessible to students in the specialised focus in Sciences and Technologies & management option instead of the internship (GSTG0016-1)

GTFE9005-1	<i>Intrapreneurial Thesis</i> (english language)	TA	-	-	-	<b>18</b>
GEST3759-1	<i>Strategic, Organizational and Information System Audits</i> (english language) - Olivier LISEIN - [200h AUTR]	TA	18	-	[+]	<b>10</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)						
GEST3050-1 - Creativity and Design						

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

Choose one of the following courses :

GEST7004-1	<i>Master Thesis Methodology</i> (english language) - Jérôme SCHOENMAECKERS	Q1	12	-	-	<b>2</b>
<b>Prerequisite :</b>						
GEST6001-1 - Preparation for Master Thesis and Internship						
GEST7002-1	<i>Methodology of the final thesis</i> - Annie CORNET	Q1	12	-	-	<b>2</b>

Choisir 1 cours de langue parmi (poursuite du choix de langue de bloc 1) :

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

LANG1938-1	<i>German 5</i> (german language) - Marie MAWHIN	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1925-1 - Allemand 4						
LANG1939-1	<i>Advanced German 5</i> (german language) - Laurent GIANOTTI	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1926-1 - Allemand avancé 4						
LANG1945-1	<i>Elementary German 2</i> - Laurent GIANOTTI	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1933-1 - Allemand élémentaire 1						
LANG7002-1	<i>Elementary Chinese 2</i> (english language) - Fang DONG, Yingxuan ZHANG	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG6009-1 - Chinois élémentaire 1						
LANG1940-1	<i>Spanish 5</i> (spanish language) - Alba CARVAJAL LAGAREJO, Véronique PEIFFER	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1927-1 - Espagnol 4						
LANG1941-1	<i>Advanced Spanish 5</i> (spanish language) - Alba CARVAJAL LAGAREJO	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1928-1 - Espagnol avancé 4						
LANG1946-1	<i>Elementary Spanish 2</i> - Alba CARVAJAL LAGAREJO, Véronique PEIFFER	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1934-1 - Espagnol élémentaire 1						
LANG1942-1	<i>(Advanced) Italian 5</i> (italian language) - Christine HANON	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG1929-1 - Italien (avancé) 4						
LANG7003-1	<i>Elementary Italian 2</i> - Alex BARDASCINO	Q1	30	-	-	<b>3</b>
<b>Prerequisite :</b>						
LANG6010-1 - Italien élémentaire 1						
LANG1950-1	<i>Advanced Dutch 5</i> (dutch language) - Nicole ENGELEN,	Q1	30	-	-	<b>3</b>

# Study programmes 2020-2021

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

ACHTERGAELE

**Prerequisite :**

LANG1932-1 - Néerlandais avancé 4

LANG1948-1 *Elementary Dutch 2* (dutch language) - Fanny NSITA Q1 30 - - 3

**Prerequisite :**

LANG1936-1 - Néerlandais élémentaire 1

LANG1955-1 *French beginner level 2* - ISLV, Marielle MARÉCHAL Q1 30 - - 3

**Prerequisite :**

LANG1954-1 - French beginner level 1

Choose one course from the following :

GEST5008-1 (pas organisé en 2020-2021) *Project Management* (english language) Q1 18 - - 3

*Notice* : a student who has chosen an Elementary language 1 course in Block 1 of the master's programme must necessarily continue in the chosen language and take the corresponding Elementary language 2 course.

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

**Prerequisite :**

LANG1933-1 - Allemand élémentaire 1

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

**Prerequisite :**

LANG6009-1 - Chinois élémentaire 1

LANG1946-1 *Elementary Spanish 2* - Alba CARVAJAL LAGAREJO, Véronique PEIFFER Q1 30 - - 3

**Prerequisite :**

LANG1934-1 - Espagnol élémentaire 1

LANG7003-1 *Elementary Italian 2* - Alex BARDASCINO Q1 30 - - 3

**Prerequisite :**

LANG6010-1 - Italien élémentaire 1

LANG1948-1 *Elementary Dutch 2* (dutch language) - Fanny NSITA Q1 30 - - 3

**Prerequisite :**

LANG1936-1 - Néerlandais élémentaire 1

GEST3032-1 *eBusiness and eCommerce* (english language) - Ashwin ITTOO Q1 30 - - 5

**Prerequisite :**

INFO0934-8 - Information Technology Management

FINA0083-1 *International Performance Management* (english language) - Didier VAN CAILLIE Q1 18 - - 3

GEST3782-1 *Introduction to family business entrepreneurship* - Nathalie CRUTZEN, Laurent WEERTS Q1 18 - - 3

GEST1076-1 *Seminar on Sustainability and Smart Territories* (english language) - Nathalie CRUTZEN Q1 18 - - 3

GEST3050-1 *Creativity and Design* - Bernard SURLEMONT 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

#### Poursuivre le choix de finalité

##### Professional focus in Supply Chain Management and Business Analytics

# Study programmes 2020-2021

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

LOGI0016-1 *Quality, Ethics and Sustainability in Supply Chain Management* (english language) - Maud BAY, Yves CRAMA, Célia PAQUAY, Virginie XHAUFLAIR Q1 30 - - 5

Choose two courses out of the following :

LOGI0017-1 *Distribution Management* (english language) - Sabine LIMBOURG Q1 30 - - 5

LOGI0015-1 *ERP Solutions for Supply Chains* (english language) - Yasemin ARDA, Samedi HENG Q1 30 - - 5

INFO2049-1 *Web and Text Analytics* (english language) - Ashwin ITTOO Q1 30 - - 5  
**Prerequisite :**  
 INFO2048-1 - Business Analytics

#### Professional focus in digital business

INFO0012-2 *Computation structures* (english language) - Pascal FONTAINE, Laurent MATHY - [40h Proj.] Q1 26 26 [+] 5

INFO2050-1 *Advanced computer programming* - Pascal FONTAINE, Pierre GEURTS - [40h Proj.] Q1 25 20 [+] 5

INFO8006-1 *Introduction to artificial intelligence* (english language) - Gilles LOUPPE - [45h Proj.] Q1 25 20 [+] 5

#### Professional focus in Financial Engineering

FINA0060-1 *Empirical Methods in Financial Markets - Theory and Applications* (english language) - Cédric HEUCHENNE Q1 30 - - 5

Choose two courses out of the following :

FINA0065-1 *Advanced Corporate Finance and Modeling* (english language) - Marie LAMBERT Q1 30 - - 5  
**Prerequisite :**  
 FINA0053-1 - Investments and Portfolio Management  
 FINA0052-1 - Financial Derivatives  
 FINA0050-1 - Corporate Finance - Lectures and Seminars

FINA0085-1 *Ethics, Regulation and Compliance in Finance* (english language) - Yves FRANCIS Q1 30 - - 5

FINA0063-1 *Financial data modelling* (english language) - Julien HAMBUECKERS Q1 30 - - 5  
**Prerequisite :**  
 FINA0053-1 - Investments and Portfolio Management  
 FINA0052-1 - Financial Derivatives

FINA0064-1 *Financial Risk Modeling* (english language) - Fabien BONIVER Q1 30 - - 5  
**Prerequisite :**  
 FINA0053-1 - Investments and Portfolio Management  
 FINA0052-1 - Financial Derivatives  
 MQGE0007-1 - Financial Mathematics and Stochastic Calculus

FINA9013-1 *Strategic Financial Analysis* (english language) - Marie LAMBERT - [30h AUTR] Q1 - - [+] 5

Notice : access on file

#### Professional focus in Sustainable Performance Management

Choose three of the following courses :

FINA0057-1 *Advanced taxation* - Isabelle RICHELLE Q1 30 - - 5  
**Prerequisite :**  
 FINA0011-2 - Audit

FINA0028-5 *International Finance* (english language) - Julien HAMBUECKERS Q1 30 - - 5

GEST3758-1 *Organizational Performance Assessment* (english language) - Didier VAN CAILLIE Q1 30 - - 5

# Study programmes 2020-2021

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

**Prerequisite :**

FINA0061-1 - Business Modeling, Control and Planning

FINA0008-2 *Resilience Engineering* (english language) - Marius KAMTO KENMOGNE Q1 30 - - 5

**Prerequisite :**

FINA0061-1 - Business Modeling, Control and Planning

**Professional focus in Intrapreneurship and Management of Innovation Projects**

*Notice :* Registration only with a file

GEST3767-1 *Consultant Roles and Responsibilities* (english language) - François PICHAULT, Giseline RONDEAUX - [80h AUTR] Q2 18 - [+] 4

**Corequisite :**

GEST3766-1 - Project and Change Management  
GEST3764-1 - Innovation Project Definition and Development (partim II)  
GEST3050-1 - Creativity and Design  
GEST3759-1 - Strategic, Organizational and Information System Audits

GEST3764-1 *Innovation Project Definition and Development (partim II)* (english language) - Olivier LISEIN - [100h AUTR] Q1 18 - [+] 5

**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 Design  
GEST3759-1 - Strategic, Organizational and Information System Audits

GEST3766-1 *Project and Change Management* (english language) - Olivier LISEIN - [100h AUTR] Q2 18 - [+] 6

**Corequisite :**

GEST3767-1 - Consultant Roles and Responsibilities  
GEST3764-1 - Innovation Project Definition and Development (partim II)  
GEST3050-1 - Creativity and Design  
GEST3759-1 - Strategic, Organizational and Information System Audits

**Professional focus in Sciences and technologies**

HULG9277-1 *Structures analysis* - Clara HUVELLE Q1 55 - - 5

HULG9276-1 *Electrical engineering* - Pierre GABRIEL Q1 35 - - 3

HULG9279-1 *Telecommunications* - Frédéric SENNY Q1 45 - - 3

HULG9278-1 *Applied thermodynamics* - Vincent KELNER Q1 40 - - 4

**Professional focus in management and technologies**

TECH2001-1 *Elements of biotechnology* - Birgit QUINTING Q1 30 15 - 5

DROI2003-2 *Legal management of a company and its employees*  
- *Droit des sociétés* - Frédéric DAERDEN, Laurent STAS DE RICHELLE Q2 25 - - 5  
- *Droit fiscal* - Isabelle RICHELLE - [5h Conf.] 25 - [+]

GRHO0001-4 *Strategic Human Resources Management* - François PICHAULT Q1 45 - - 5