

#### Block view of the study programme

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#### 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)* - 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 10 - 5

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

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

GEST6003-1 *International Business Engineering Seminar (english language)* - Yasemin ARDA, Mustafa Celebi PINAR Q1 30 - - 5

MARK9302-1 *International Marketing Seminar (english language)* - Ioannis ASSIOURAS, Claire GRUSLIN 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

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 TA 30 - - 3

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

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

# Study programmes 2023-2024

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

LANG1927-1	<i>Spanish 4</i> (spanish language) - Alba BALLESTA MARTÍNEZ	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, Alba BALLESTA MARTÍNEZ	TA	30	-	-	3
LANG1929-1	<i>(Advanced) Italian 4</i> (italian language) - Alex BARDASCINO	Q2	30	-	-	3
LANG6010-1	<i>Elementary Italian 1</i> - Alex BARDASCINO	Q2	30	-	-	3
LANG1932-1	<i>Dutch 4</i> (dutch language) - Wannas DUPONCHEEL, Nicole ENGELEN	Q2	30	-	-	3
LANG1936-1	<i>Elementary Dutch 1</i> - Fanny NSITA	Q2	30	-	-	3
LANG1954-1	<i>French beginner level 1</i> - ISLV, Marielle MARÉCHAL	Q2	30	-	-	3

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

Choose one of the following courses :

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	TA	30	-	-	3
LANG6009-1	<i>Elementary Chinese 1</i> (english language) - Rachel DELCOURT	Q2	30	-	-	3
LANG1934-1	<i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA, Alba BALLESTA MARTÍNEZ	TA	30	-	-	3
LANG6010-1	<i>Elementary Italian 1</i> - Alex BARDASCINO	Q2	30	-	-	3
LANG1936-1	<i>Elementary Dutch 1</i> - Fanny NSITA	Q2	30	-	-	3
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
ECON2306-1	(pas organisé en 2023-2024) <i>Data Management</i> (english language) - Malka GUILLOT	Q2	30	-	-	5

Choose one focus from the following :

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

MQGE0002-3	<i>Computational Optimization</i> (english language) - Bernard FORTZ	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

INFO9003-1	<i>Advanced Topics in Digital Business</i> (english language) - Ashwin ITTOO	Q2	30	-	-	5
INFO0062-1	<i>Object-oriented programming</i> (english language) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	5
INFO0902-1	<i>Data structures and algorithms</i> - Pierre GEURTS - [40h Proj.]	Q2	26	20	[+]	5

#### Professional focus in Financial Engineering

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

#### 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
FINA9028-1	<i>Contemporary Issues in Financial Analysis</i> (english language) - Wouter TORSIN	Q2	30	-	-	5

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

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

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) - Frédéric OOMS - [100h AUTR]	Q2	18	-	[+]	5

#### Professional focus in Sciences and technologies

*Notice* : Registration only with a 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>Technical drawing and Computer Aided Design (CAD)</i> - Pierre ERNST	Q2	55	-	-	5
HULG9283-1	<i>Technology and machining</i> - Bernard RAUSIN	Q2	45	-	-	3

#### 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
GEST7004-1	<i>Master Thesis Methodology</i> (english language) - Frédéric DUFAYS	Q1	12	-	-	2

**Prerequisite :**  
GEST6001-1 - Preparation for Master Thesis and Internship

##### 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
GTFE9005-1	<i>Intrapreneurial Thesis</i> (english language) <b>Prerequisite :</b> GEST6001-1 - Preparation for Master Thesis and Internship	TA	-	-	-	18
GEST3759-1	<i>Strategic, Organizational and Information System Audits</i> (english language) - Olivier LISEIN - [200h AUTR]	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.

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>
LANG1939-1	<i>Advanced German 5</i> (german language) - Laurent GIANOTTI	Q1	30	-	-	<b>3</b>
LANG1945-1	<i>Elementary German 2</i> - Laurent GIANOTTI	Q1	30	-	-	<b>3</b>
LANG9919-1	<i>Chinese 5</i> - Fang DONG	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG9913-1 - Chinois 4					
LANG7002-1	<i>Elementary Chinese 2</i> (english language) - Fang DONG	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG6009-1 - Chinois élémentaire 1					
LANG1940-1	<i>Spanish 5</i> (spanish language) - Cristina ALONSO MARTIN	Q1	30	-	-	<b>3</b>
LANG1941-1	<i>Advanced Spanish 5</i> (spanish language) - Alba BALLESTA MARTÍNEZ	Q1	30	-	-	<b>3</b>
LANG1946-1	<i>Elementary Spanish 2</i> - Véronique PEIFFER	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG1934-1 - Espagnol élémentaire 1					
LANG1942-1	<i>(Advanced) Italian 5</i> (italian language) - Alex BARDASCINO	Q1	30	-	-	<b>3</b>
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>Dutch 5</i> (dutch language) - Wannes DUPONCHEEL, Nicole ENGELN	Q1	30	-	-	<b>3</b>
LANG1948-1	<i>Elementary Dutch 2</i> (dutch language) - Fanny NSITA	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG1936-1 - Néerlandais élémentaire 1					
LANG1955-1	<i>French beginner level 2</i> - ISLV, Marielle MARÉCHAL	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG1954-1 - French beginner level 1					

Choose one of the following courses :

*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	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG1933-1 - Allemand élémentaire 1					
LANG7002-1	<i>Elementary Chinese 2</i> (english language) - Fang DONG	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG6009-1 - Chinois élémentaire 1					
LANG1946-1	<i>Elementary Spanish 2</i> - Véronique PEIFFER	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG1934-1 - Espagnol élémentaire 1					
LANG7003-1	<i>Elementary Italian 2</i> - Alex BARDASCINO	Q1	30	-	-	<b>3</b>
	<b>Prerequisite :</b> LANG6010-1 - Italien élémentaire 1					

LANG1948-1	<i>Elementary Dutch 2</i> (dutch language) - Fanny NSITA <b>Prerequisite :</b> LANG1936-1 - Néerlandais élémentaire 1	Q1	30	-	-	3
GEST5008-1	(pas organisé en 2023-2024) <i>Project Management</i> (english language)	Q1	18	-	-	3
FINA0083-1	<i>Organizational Business Model Design</i> (english language) - Didier VAN CAILLIE	Q1	18	-	-	3
GEST3782-1	<i>Introduction to family business entrepreneurship</i> - Nathalie CRUTZEN, Laurent WEERTS	Q1	18	-	-	3
GEST1076-1	<i>Seminar on Sustainability and Smart Territories</i> (english language) - Nathalie CRUTZEN	Q1	18	-	-	3
GEST3032-1	<i>eBusiness and eCommerce</i> (english language) - Ashwin ITTOO <b>Prerequisite :</b> INFO0934-8 - Information Technology Management	Q1	30	-	-	5
GEST3050-1	<i>Creativity and stimulation of collective intelligence</i> (english language) - Deniz BOGA <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  <i>Notice : this course is compulsory and only open to students of the professional focus in Intrapreneurship and Management of Innovation Projects</i>	Q2	18	50	-	3

[...] 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

LOGI0016-1	<i>Quality, Ethics and Sustainability in Supply Chain Management</i> (english language) - Morgane DUMONT, Célia PAQUAY, Virginie XHAUFLAIR	Q1	30	-	-	5
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Choose two courses out of the following :

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

##### Professional focus in digital business

INFO8006-1	<i>Introduction to artificial intelligence</i> (english language) - Gilles LOUPPE - [45h Proj.] <b>Prerequisite :</b> INFO0902-1 - Structures des données et algorithmes	Q1	25	20	[+]	5
INFO9017-1	<i>Database for management</i> (english language) - Siamak KHAYYATI	Q1	30	-	-	5

Choose one of the following courses :

INFO0010-4	<i>Introduction to computer networking</i> (english language) - Guy LEDUC - [12h Labo., 40h Proj.]	Q1	32	2	[+]	5
GEST7064-1	<i>Digital Business Capstone Project</i> - Ashwin ITTOO, Michael SCHYNS <b>Prerequisite :</b> INFO0062-1 - Object-oriented programming	TA	15	15	-	5

# Study programmes 2023-2024

## HEC Management School - University of Liege

### Master in business engineering (120 ECTS)

#### Professional focus in Financial Engineering

FINA0064-1 *Financial Risk Modeling* (english language) - Julien HAMBUECKERS Q1 30 - - 5

Choose two courses out of the following :

FINA0065-1 *Advanced Corporate Finance and Modeling* (english language) - Marie LAMBERT - Suppl : Jürgen HANSSENS, Alexandre SCIVOLETTO 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 *Advanced Statistical Methods in Finance* (english language) - Julien HAMBUECKERS Q1 30 - - 5

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

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

FINA0028-5 *International Finance* (english language) - Caterina SANTI Q1 30 - - 5

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

**Prerequisite :**

FINA0061-1 - Business Modeling, Control and Planning

FINA0008-2 *Resilience Engineering* (english language) - Didier VAN CAILLIE Q1 30 - - 5

**Prerequisite :**

FINA0061-1 - Business Modeling, Control and Planning

FINA0044-5 (pas organisé en 2023-2024) *Strategic Performance Management* (english language) Q1 30 - - 5

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

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

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 stimulation of collective intelligence

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 stimulation of collective intelligence

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 stimulation of collective intelligence

GEST3759-1 - Strategic, Organizational and Information System Audits

**Professional focus in Sciences and technologies**

HULG9277-1	<i>Structures analysis</i> - Clara HUVELLE	Q1	55	-	-	<b>5</b>
HULG9276-1	<i>Electrical engineering</i> - Pierre GABRIEL	Q1	35	-	-	<b>3</b>
HULG9279-1	<i>Telecommunications</i> - Frédéric SENNY	Q1	45	-	-	<b>3</b>
HULG9278-1	<i>Applied thermodynamics</i> - Vincent KELNER	Q1	40	-	-	<b>4</b>