

Study programmes 2022-2023

HEC Management School - University of Liege

Master in business engineering (120 ECTS)

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	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 ÇELEBI 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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Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

GTFE0014-1	<i>Research-Thesis</i>	B2	TA	-	-	-	18
	Prerequisite : GEST6001-1 - Preparation for Master Thesis and Internship						
GSTG0016-1	<i>Internship</i>	B2	Q2	-	-	-	10
GTFE9005-1	<i>Intrapreneurial Thesis</i> (english language)	B2	TA	-	-	-	18
	Prerequisite : GEST6001-1 - Preparation for Master Thesis and Internship						
GEST3759-1	<i>Strategic, Organizational and Information System Audits</i> (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 - Créativité et stimulation de l'intelligence collective						

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	<i>German 4</i> (german language) - Marie MAWHIN	B1	Q2	30	-	-	3
LANG1926-1	<i>Advanced German 4</i> (german language) - Laurent GIANOTTI	B1	Q2	30	-	-	3
LANG1933-1	<i>Elementary German 1</i> - Marie MAWHIN	B1	TA	30	-	-	3
LANG9913-1	<i>Chinese 4</i> (english language) - Fang DONG	B1	Q2	30	-	-	3
LANG6009-1	<i>Elementary Chinese 1</i> (english language) - Fang DONG	B1	Q2	30	-	-	3
LANG1927-1	<i>Spanish 4</i> (spanish language) - Alba CARVAJAL LAGAREJO - Suppl : Marta GALLEGO GARCIA	B1	Q2	30	-	-	3
LANG1928-1	<i>Advanced Spanish 4</i> (spanish language) - Alexis ALVAREZ BARBOSA	B1	Q2	30	-	-	3
LANG1934-1	<i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA, Alba CARVAJAL LAGAREJO	B1	TA	30	-	-	3
LANG1929-1	<i>(Advanced) Italian 4</i> (italian language) - Alex BARDASCINO	B1	Q2	30	-	-	3
LANG6010-1	<i>Elementary Italian 1</i> - Alex BARDASCINO	B1	Q2	30	-	-	3
LANG1932-1	<i>Dutch 4</i> (dutch language) - Nicole ENGELEN, Elies SMEYERS	B1	Q2	30	-	-	3
LANG1936-1	<i>Elementary Dutch 1</i> - Fanny NSITA	B1	Q2	30	-	-	3
LANG1954-1	<i>French beginner level 1</i> - 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	<i>German 5</i> (german language) - Marie MAWHIN	B2	Q1	30	-	-	3
LANG1939-1	<i>Advanced German 5</i> (german language) - Laurent GIANOTTI	B2	Q1	30	-	-	3
LANG1945-1	<i>Elementary German 2</i> - Laurent GIANOTTI	B2	Q1	30	-	-	3
LANG9919-1	<i>Chinese 5</i> - Fang DONG	B2	Q1	30	-	-	3
	Prerequisite : LANG9913-1 - Chinois 4						
LANG7002-1	<i>Elementary Chinese 2</i> (english language) - Fang DONG	B2	Q1	30	-	-	3
	Prerequisite : LANG6009-1 - Chinois élémentaire 1						

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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 CARVAJAL LAGAREJO	B2	Q1	30	-	-	3
LANG1946-1	<i>Elementary Spanish 2</i> - Alexis ALVAREZ BARBOSA, 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) - Nicole ENGELEN, Elies SMEYERS Prerequisite : LANG1932-1 - Néerlandais 4	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

LANG1933-1	<i>Elementary German 1</i> - Marie MAWHIN	B1	TA	30	-	-	3
LANG6009-1	<i>Elementary Chinese 1</i> (english language) - Fang DONG	B1	Q2	30	-	-	3
LANG1934-1	<i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA, Alba CARVAJAL LAGAREJO	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 - Suppl : Anthony SANTINO	B1	Q2	18	-	-	3
TECH0003-4	<i>Innovative technology projects</i> - Pierre DENEYE	B1	Q2	24	-	-	4
INFO9002-1	<i>Software Development and Project Management</i> (english language)	B1	Q2	24	-	-	4
ECON2306-1	<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.

GEST5008-1	(pas organisé en 2022-2023) <i>Project Management</i> (english language)	B2	Q1	18	-	-	3
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> - Alexis ALVAREZ BARBOSA, Véronique PEIFFER Prerequisite :	B2	Q1	30	-	-	3

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	LANG1934-1 - Espagnol élémentaire 1								
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 Prerequisite : LANG1936-1 - Néerlandais élémentaire 1	B2	Q1	30	-	-			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, Raphaëlle MATTART - Suppl : Raphaëlle MATTART	B2	Q1	18	-	-			3
GEST1076-1	(pas organisé en 2022-2023) <i>Seminar on Sustainability and Smart Territories</i> (english language)	B2	Q1	18	-	-			3
GEST3032-1	<i>eBusiness and eCommerce</i> (english language) - Ashwin ITTOO Prerequisite : INFO0934-8 - Information Technology Management	B2	Q1	30	-	-			5
GEST3050-1	<i>Creativity and stimulation of collective intelligence</i> 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	B2	Q2	18	50	-			3
	<i>Notice : this course is compulsory and only open to students of the professional focus in Intrapreneurship and Management of Innovation Projects</i>								

[...] 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) - Yves CRAMA	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) - Yves CRAMA, Célia PAQUAY, Virginie XHAUFLAIR	B2	Q1	30	-	-			5

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

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 Prerequisite : LOGI0012-1 - Logistics and Transportation	B2	Q1	30	-	-			5
INFO2049-1	<i>Web and Text Analytics</i> (english language) - Ashwin ITTOO Prerequisite : INFO2048-1 - Business Analytics	B2	Q1	30	-	-			5

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	-	-			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
INFO9017-1	<i>Database for management</i> (english language) - Michael SCHYNS	B2	Q1	30	-	-	5
INFO8006-1	<i>Introduction to artificial intelligence</i> (english language) - Gilles LOUPPE - [45h Proj.]	B2	Q1	25	20	[+]	5
	Prerequisite : INFO0902-1 - Structures des données et algorithmes						

Choose one of the following courses : (B2 : 5Cr)

INFO0012-2	<i>Computation structures</i> (english language) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	B2	Q1	26	26	[+]	5
	Prerequisite : INFO0902-1 - Structures des données et algorithmes						
GEST7064-1	<i>Digital Business Capstone Project</i> - Ashwin ITTOO, Michael SCHYNS	B2	TA	15	15	-	5
	Prerequisite : INFO0062-1 - Object-oriented programming						

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

FINA0052-1	<i>Financial Derivatives</i> (english language) - Julien HAMBUECKERS - Suppl : Fabien BONIVER	B1	Q2	30	-	-	5
MQGE0007-1	<i>Financial Mathematics and Stochastic Calculus</i> (english language) - Célia PAQUAY	B1	Q2	30	-	-	5
FINA0053-1	<i>Investments and Portfolio Management</i> (english language) - Georges HÜBNER - Suppl : Laurent BODSON	B1	Q2	30	-	-	5
FINA0064-1	<i>Financial Risk Modeling</i> (english language) - Julien HAMBUECKERS	B2	Q1	30	-	-	5

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

FINA0065-1	<i>Advanced Corporate Finance and Modeling</i> (english language) - Marie LAMBERT	B2	Q1	30	-	-	5
	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
FINA0063-1	<i>Advanced Statistical Methods in Finance</i> (english language) - Julien HAMBUECKERS	B2	Q1	30	-	-	5
FINA0060-1	<i>Empirical Methods in Financial Markets - Theory and Applications</i> (english language) - Cédric HEUCHENNE	B2	Q1	30	-	-	5
FINA9013-1	<i>Strategic Financial Analysis</i> (english language) - Marie LAMBERT - [30h AUTR]	B2	Q1	-	-	[+]	5
	<i>Notice :</i> 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
FINA0061-1	<i>Business Modeling, Control and Planning</i> (english language) - Didier VAN CAILLIE	B1	Q2	30	-	-	5

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
FINA9001-1	<i>Sustainable Management Control</i> (english language) -	B1	Q2	30	-	-	5

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Nathalie CRUTZEN - Suppl : Cécile CAPUTO, Jessica CLEMENT,
Benoit RUYSSCHAERT

FINA9028-1	<i>Contemporary Issues in Financial Analysis</i> (english language) - Wouter TORSIN	B1	Q2	30	-	-	5
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 2022-2023) <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] Corequisite : GEST3766-1 - Project and Change Management GEST3764-1 - Innovation Project Definition and Development (partim II) GEST3050-1 - Créativité et stimulation de l'intelligence collective 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 - Créativité et stimulation de l'intelligence collective 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 - Créativité et stimulation de l'intelligence collective 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> -	B1	Q2	55	-	-	5

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