

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 *Integration activities in science and technology - part 1* - Pierre DENEYE - [8d Proj.] B1 TA - - [+] 2

GEST5002-1 *Integration activities in science and technology - part 2* - Pierre DENEYE - [8d Proj.] B1 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.] B1 TA - - [+] 2

GEST5004-1 *Integration activities in digital business - part 2* - Michael SCHYNS - [8d Proj.] B1 TA - - [+] 2

Compulsory courses (B1 : 11Cr, B2 : 9Cr)

INFO2048-1 *Business Analytics* (english language) - Michael SCHYNS B1 Q2 30 - - 5

INFO0934-8 *Information Technology Management* (english language) - Samedi HENG, Ashwin ITTOO B1 Q2 30 - - 5

GEST6001-1 *Preparation for Master Thesis and Internship* (english language) - Stéphanie AERTS, Sophie LERUTH B1 Q2 10 - - 1

GPRO0002-1 *Skills workshops* - David HOMBURG B2 TA - - - 5

GEST3753-1 *Business Ethics and Corporate Social Responsibility* (english language) - Virginie XHAUFLAIR - Suppl : Romain DAVID B2 Q1 24 - - 4

Optional courses (B1 : 49Cr, B2 : 51Cr)

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

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

ERAS0017-1 *Erasmus HEC (MIG)* - N... B1 - - - 28

Module 2 (B1 : 28Cr)

GEST3752-1 *Change Management* (english language) - Olivier LISEIN B1 Q1 30 10 - 5

FINA0050-1 *Corporate Finance - Lectures and Seminars* (english language) - Marie LAMBERT B1 Q1 30 - - 5

GEST3754-1 *Entrepreneurship and Innovation* (english language) - Frédéric OOMS B1 Q1 18 - - 3

GEST6003-1 *International Business Engineering Seminar* (english language) - Yasemin ARDA, Alper SEN B1 Q1 30 - - 5

MARK9302-1 *International Marketing Seminar* (english language) - Claire GRUSLIN, Benjamin ÖSTERLE B1 Q1 30 - - 5

STAT0800-1 *Models and Methods in Applied Statistics* (english language) - Cédric HEUCHENNE B1 Q1 30 - - 5

Choose courses for a total of 28 credits among: (B2 : 28Cr)

GTFE8003-1 *Project-Thesis* B2 TA - - - 28
Prerequisite :
 GEST6001-1 - Preparation for Master Thesis and Internship

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

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Master in business engineering (120 ECTS)

Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

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

GEST1114-1 *Transdisciplinary project* - AnneChristine CADIAT, Anne CHANTEUX, Magali HERMAN, Thierry PIRONET B2 TA - - - **10**

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 *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 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 : (B2 : 2Cr)

GEST7004-1 *Master Thesis Methodology* (english language) - Frédéric DUFAYS B2 Q1 12 - - **2**

Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

GEST7002-1 *Methodology of the final thesis* - Annie CORNET B2 Q1 12 - - **2**

Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

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

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

[...] 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 Q2 30 - - **3**

LANG9913-1 *Chinese 4* - Fang DONG B1 Q2 30 - - **3**

LANG6009-1 *Elementary Chinese 1* - Fang DONG B1 Q2 30 - - **3**

LANG1927-1 *Spanish 4* (spanish language) - Alba CARVAJAL LAGAREJO 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 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 *Advanced Dutch 4* (dutch language) - Nicole ENGELEN, Elies SMEYERS B1 Q2 30 - - **3**

LANG1936-1 *Elementary Dutch 1* - Fanny NSITA B1 TA 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

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LANG1938-1	<i>German 5</i> (german language) - Marie MAWHIN Prerequisite : LANG1925-1 - Allemand 4	B2	Q1	30	-	-	3
LANG1939-1	<i>Advanced German 5</i> (german language) - Laurent GIANOTTI Prerequisite : LANG1926-1 - Allemand avancé 4	B2	Q1	30	-	-	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
LANG1940-1	<i>Spanish 5</i> (spanish language) - Cristina ALONSO MARTIN Prerequisite : LANG1927-1 - Espagnol 4	B2	Q1	30	-	-	3
LANG1941-1	<i>Advanced Spanish 5</i> (spanish language) - Cristina ALONSO MARTIN Prerequisite : LANG1928-1 - Espagnol avancé 4	B2	Q1	30	-	-	3
LANG1946-1	<i>Elementary Spanish 2</i> - Alba CARVAJAL LAGAREJO, Véronique PEIFFER Prerequisite : LANG1934-1 - Espagnol élémentaire 1	B2	Q1	30	-	-	3
LANG1942-1	<i>(Advanced) Italian 5</i> (italian language) - Alex BARDASCINO Prerequisite : LANG1929-1 - Italien (avancé) 4	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>Advanced Dutch 5</i> (dutch language) - Nicole ENGELEN, Elies SMEYERS Prerequisite : LANG1932-1 - Néerlandais avancé 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	Q2	30	-	-	3
LANG6009-1	<i>Elementary Chinese 1</i> - Fang DONG	B1	Q2	30	-	-	3
LANG1934-1	<i>Elementary Spanish 1</i> - Alexis ALVAREZ BARBOSA	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	TA	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

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INFO9002-1	<i>Software Development and Project Management</i> (english language) - Samedì HENG	B1	Q2	24	-	-	4
ECON2306-1	<i>Data Management</i> (english language) - Malka GUILLOT	B1	Q2	30	15	-	5
Choose one of the following courses : (B2 : 3Cr)							
GEST5008-1	(pas organisé en 2021-2022) <i>Project Management</i> (english language) <i>Notice</i> : 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.	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> - Alba CARVAJAL LAGAREJO, 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 Prerequisite : LANG1936-1 - Néerlandais élémentaire 1	B2	Q1	30	-	-	3
GEST3032-1	<i>eBusiness and eCommerce</i> (english language) - Ashwin ITTOO Prerequisite : INFO0934-8 - Information Technology Management	B2	Q1	30	-	-	5
FINA0083-1	<i>International Performance Management</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
GEST3050-1	<i>Creativity and Design</i> - Deniz BOGA 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 <i>Notice</i> : this course is compulsory and only open to students of the professional focus in Intrapreneurship and Management of Innovation Projects	B2	Q2	18	50	-	3

[...] 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>	B2	Q1	30	-	-	5

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(english language) - Yves CRAMA, Célia PAQUAY,
Virginie XHAUFLAIR

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, Samedi HENG	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)

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

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

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
GEST7064-1	<i>Digital Business Capstone Project</i> - Samedi HENG, Ashwin ITTOO, Michael SCHYNS	B2	TA	15	15	-	5

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

FINA0052-1	<i>Financial Derivatives</i> (english language) - Julien HAMBUECKERS	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	B1	Q2	30	-	-	5
FINA0060-1	<i>Empirical Methods in Financial Markets - Theory and Applications</i> (english language) - Cédric HEUCHENNE	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 Prerequisite : FINA0053-1 - Investments and Portfolio Management FINA0052-1 - Financial Derivatives FINA0050-1 - Corporate Finance - Lectures and Seminars	B2	Q1	30	-	-	5
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 Prerequisite : FINA0053-1 - Investments and Portfolio Management FINA0052-1 - Financial Derivatives	B2	Q1	30	-	-	5
FINA0064-1	(pas organisé en 2021-2022) <i>Financial Risk Modeling</i> (english language)	B2	Q1	30	-	-	5

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language)

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] B2 Q1 - - [+] 5

Notice : access on file

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

FINA0011-2 *Audit* (english language) - Yves FRANCIS B1 Q2 30 - - 5

FINA0061-1 *Business Modeling, Control and Planning* (english language) - Didier VAN CAILLIE B1 Q2 30 - - 5

Choose four of the following courses : (B1 : 5Cr, B2 : 15Cr)

FINA0030-1 *Consolidation and IFRS* (english language) - Patrice SCHUMESCH B1 Q2 30 - - 5

FINA9001-1 *Sustainable Management Control* (english language) - Nathalie CRUTZEN B1 Q2 30 - - 5

FINA0057-1 *Advanced taxation* - Isabelle RICHELLE B2 Q1 30 - - 5
Prerequisite :
 FINA0011-2 - Audit

FINA0028-5 *International Finance* (english language) - Caterina SANTI B2 Q1 30 - - 5

GEST3758-1 *Organizational Performance Assessment* (english language) - Didier VAN CAILLIE B2 Q1 30 - - 5
Prerequisite :
 FINA0061-1 - Business Modeling, Control and Planning

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

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

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

ECON2275-1 *Economics of Innovation* (english language) - Lionel ARTIGE B1 Q2 30 - - 5

GEST3755-1 *Innovation Project Definition and Development (partim I)* (english language) - Olivier LISEIN - [100h AUTR] B1 Q2 18 - [+] 5

GEST3757-1 *Strategy and Business Model Generation* (english language) - Frédéric OOMS - [100h AUTR] B1 Q2 18 - [+] 5

GEST3767-1 *Consultant Roles and Responsibilities* (english language) - François PICHAULT, Giseline RONDEAUX - [80h AUTR] B2 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] B2 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

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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] B2 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 (B1 : 15Cr, B2 : 15Cr)

Notice : Accessible on application 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>Graphic techniques</i> - Pierre ERNST, Etienne LEGRAND	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
HULG9279-1	<i>Telecommunications</i> - Frédéric SENNY	B2	Q1	45	-	-	3
HULG9278-1	<i>Applied thermodynamics</i> - Vincent KELNER	B2	Q1	40	-	-	4

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	B1	Q2	45	-	-	5
FINA0091-1	<i>Market Finance in EU</i> (english language) - Caterina SANTI	B1	Q2	40	15	-	5
LOGI0010-1	<i>Supply Chain Management</i> (english language) - Yasemin ARDA	B1	Q2	45	-	-	5
TECH2001-1	<i>Elements of biotechnology</i> - Birgit QUINTING	B2	Q1	30	15	-	5
DROI2003-2	<i>Legal management of a company and its employees</i> - <i>Droit des sociétés</i> - Frédéric DAERDEN, Laurent STAS DE RICHELLE - <i>Droit fiscal</i> - Isabelle RICHELLE - [5h Conf.]	B2	Q2	25	-	-	5
GRHO0001-4	<i>Strategic Human Resources Management</i> - François PICHAULT	B2	Q1	45	-	-	5