

Study programmes 2020-2021

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 : 9Cr)

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) - Samedi HENG, 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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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	<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	-	-	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 OOMS	B1	Q1	18	-	-	3
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GEST6003-1	<i>International Business Engineering Seminar</i> (english language) - Yasemin ARDA, Alper SEN	B1	Q1	30	-	-	5
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MARK9302-1	<i>International Marketing Seminar</i> (english language) - Claire GRUSLIN, Benjamin ÖSTERLE	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> Prerequisite : GEST6001-1 - Preparation for Master Thesis and Internship	B2	TA	-	-	-	28
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GTFE0014-1	<i>Research-Thesis</i>	B2	TA	-	-	-	18
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Prerequisite :

GEST6001-1 - Preparation for Master Thesis and Internship

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

GEST1114-1 *Transdisciplinary project* - AnneChristine CADIAT, Anne CHANTEUX, 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**

GEST3759-1 *Strategic, Organizational and Information System Audits* (english language) - Olivier LISEIN - [200h AUTR] B2 TA 18 - [+] **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) - Jérôme SCHOENMAECKERS 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**

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

[...] 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 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**

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

LANG1927-1 *Spanish 4* (spanish language) - Alexis ALVAREZ BARBOSA, 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**

LANG1954-1 *French beginner level 1* - ISLV, Marielle MARÉCHAL B1 Q2 30 - - **3**

LANG1929-1 *(Advanced) Italian 4* (italian language) - Christine HANON B1 Q2 30 - - **3**

LANG6010-1 *Elementary Italian 1* - Alex BARDASCINO B1 Q2 30 - - **3**

LANG1932-1 *Advanced Dutch 4* (dutch language) - Nicole ENGELEN, Lutgarde NACHTERGAELE B1 Q2 30 - - **3**

LANG1936-1 *Elementary Dutch 1* - Stéphane GHIJSEN, Isabelle VAN DEN HOVE B1 TA 30 - - **3**

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

LANG1938-1 *German 5* (german language) - Marie MAWHIN B2 Q1 30 - - **3**

Prerequisite :

LANG1925-1 - Allemand 4

LANG1939-1 *Advanced German 5* (german language) - Laurent GIANOTTI B2 Q1 30 - - **3**

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	Prerequisite : LANG1926-1 - Allemand avancé 4							
LANG1945-1	<i>Elementary German 2</i> - Laurent GIANOTTI	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1933-1 - Allemand élémentaire 1							
LANG7002-1	<i>Elementary Chinese 2</i> (english language) - Fang DONG, Yingxuan ZHANG	B2	Q1	30	-	-	-	3
	Prerequisite : LANG6009-1 - Chinois élémentaire 1							
LANG1940-1	<i>Spanish 5</i> (spanish language) - Alba CARVAJAL LAGAREJO, Véronique PEIFFER	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1927-1 - Espagnol 4							
LANG1941-1	<i>Advanced Spanish 5</i> (spanish language) - Alba CARVAJAL LAGAREJO	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1928-1 - Espagnol avancé 4							
LANG1946-1	<i>Elementary Spanish 2</i> - Alba CARVAJAL LAGAREJO, Véronique PEIFFER	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1934-1 - Espagnol élémentaire 1							
LANG1942-1	<i>(Advanced) Italian 5</i> (italian language) - Christine HANON	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1929-1 - Italien (avancé) 4							
LANG7003-1	<i>Elementary Italian 2</i> - Alex BARDASCINO	B2	Q1	30	-	-	-	3
	Prerequisite : LANG6010-1 - Italien élémentaire 1							
LANG1950-1	<i>Advanced Dutch 5</i> (dutch language) - Nicole ENGELN, Lutgarde NACHTERGAELE	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1932-1 - Néerlandais avancé 4							
LANG1948-1	<i>Elementary Dutch 2</i> (dutch language) - Fanny NSITA	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1936-1 - Néerlandais élémentaire 1							
LANG1955-1	<i>French beginner level 2</i> - ISLV, Marielle MARÉCHAL	B2	Q1	30	-	-	-	3
	Prerequisite : LANG1954-1 - French beginner level 1							

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

LANG1933-1	<i>Elementary German 1</i> - Marie MAWHIN	B1	Q2	30	-	-	-	3
LANG6009-1	<i>Elementary Chinese 1</i> - Fang DONG, Chao MENG	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> - Stéphane GHIJSEN, Isabelle VAN DEN HOVE	B1	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	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
INFO9002-1	<i>Software Development and Project Management</i> (english language) - Samedi HENG	B1	Q2	24	-	-	-	4
GEST5008-1	(pas organisé en 2020-2021) <i>Project Management</i> (english language)	B2	Q1	18	-	-	-	3

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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	<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, Yingxuan ZHANG 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> - Bernard SURLEMONT 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

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) - 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) - Maud BAY, 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
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LOGI0015-1	<i>ERP Solutions for Supply Chains</i> (english language) - Yasemin ARDA, 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

INFO9003-1	<i>Advanced Topics in Digital Business</i> (english language) - Ashwin ITTOO	B1	Q2	30	-	-	5
INFO0009-2	<i>Database (general organisation)</i> - Samuel HIARD - [25h Proj.]	B1	Q2	26	26	[+]	5
INFO0062-1	<i>Object-oriented programming</i> (english language) - Bernard BOIGELOT - [20h Proj.]	B1	Q2	25	20	[+]	5
INFO0012-2	<i>Computation structures</i> (english language) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	B2	Q1	26	26	[+]	5
INFO2050-1	<i>Advanced computer programming</i> - Pascal FONTAINE, Pierre GEURTS - [40h Proj.]	B2	Q1	25	20	[+]	5
INFO8006-1	<i>Introduction to artificial intelligence</i> (english language) - Gilles LOUPPE - [45h Proj.]	B2	Q1	25	20	[+]	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>Financial data modelling</i> (english language) - Julien HAMBUECKERS Prerequisite : FINA0053-1 - Investments and Portfolio Management FINA0052-1 - Financial Derivatives	B2	Q1	30	-	-	5
FINA0064-1	<i>Financial Risk Modeling</i> (english language) - Fabien BONIVER Prerequisite : FINA0053-1 - Investments and Portfolio Management FINA0052-1 - Financial Derivatives MQGE0007-1 - Financial Mathematics and Stochastic Calculus	B2	Q1	30	-	-	5
FINA9013-1	<i>Strategic Financial Analysis</i> (english language) - Marie LAMBERT - [30h AUTR]	B2	Q1	-	-	[+]	5

Notice : access on file

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

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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) - Nathalie CRUTZEN	B1	Q2	30	-	-	5
FINA0057-1	<i>Advanced taxation</i> - Isabelle RICHELLE Prerequisite : FINA0011-2 - Audit	B2	Q1	30	-	-	5
FINA0028-5	<i>International Finance</i> (english language) - Julien HAMBUECKERS	B2	Q1	30	-	-	5
GEST3758-1	<i>Organizational 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) - Marius KAMTO KENMOGNE Prerequisite : FINA0061-1 - Business Modeling, Control and Planning	B2	Q1	30	-	-	5

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

Notice : Registration only with a file

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) - Didier VAN CAILLIE - [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 - Creativity and Design 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 - Creativity and Design 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 - Creativity and Design GEST3759-1 - Strategic, Organizational and Information System Audits	B2	Q2	18	-	[+]	6

Professional focus in Sciences and technologies (B1 : 15Cr, B2 : 15Cr)

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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) - Patrick BROCHÉ, Georges HÜBNER	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