Block view of the study programme

			Or	Th	Pr	Au	Cr

Block 1

Depending on your track record or your professional/research focus, some prerequisites/corequisites of your first year program might appear in bloc 2. You are therefore invited to go through the list of courses suggested in bloc 2 even if you enroll for the first time in this master program.

To complete their curriculum, students must earn or validate the 65 credits of the compulsory courses (including the master thesis), choose 30 credits from one of the three professional foci and take 25 credits of optional courses.
Ideally, students enrolling in the master program should have acquired the skills and knowledge corresponding to the 40 credits in "Computer science" offered as part of the bachelor program in engineering.

Compulsory courses within the focus

Code	Course	Or	Th	Pr	Au	Cr
INFO8010-1	*Deep learning* (english language) - Gilles LOUPPE - [60h Proj.]	Q2	30	-	[+]	5
SYST0022-1	*Linear Systems Design* (english language) - Guillaume DRION, Pierre SACRÉ - [15h Proj.]	Q2	26	26	[+]	5

Optional courses within the focus

Students choosing this focus shall select, in addition to 10 credits of compulsory courses, 5 credits of elective courses inside the focus. The remaining credits can be taken inside or outside the focus.

Code	Course	Or	Th	Pr	Au	Cr
ELEN0016-2	*Computer vision* (english language) - Anthony CIOPPA, Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	5
INFO0948-2	*Introduction to intelligent robotics* (english language) - Pierre SACRÉ - [80h Proj.]	Q2	30	4	[+]	5
INFO2049-1	*Web and Text Analytics* (english language) - Ashwin ITTOO **Corequisite :** ELEN0062-1 - Introduction to machine learning	Q1	30	-	-	5
GBIO0002-1	*Genetics and bioinformatics* (english language) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	Q1	30	15	[+]	5
DROI1357-1	*European law, (big) data and artificial intelligence applications seminar* (english language) - Ljupcho GROZDANOVSKI	Q1	24	-	-	5
INFO8003-1	*Reinforcement learning* (english language) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]	5
INFO8004-1	*Advanced Machine learning* (english language) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.]	Q2	25	-	[+]	5
INFO8006-1	*Introduction to artificial intelligence* (english language) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]	5
INFO9014-1	*Knowledge representation and reasoning* (english language) - Christophe DEBRUYNE - [45h Proj.] **Corequisite :** INFO9015-1 - Logic for Computer Science	Q2	24	20	[+]	5
INFO9023-1	*Machine Learning Systems Design* (english language) - Thomas VRANCKEN - [17h Labo., 18h Proj.] **Corequisite :** ELEN0062-1 - Introduction to machine learning	Q2	17	-	[+]	5

Compulsory courses from the core curriculum

Code	Course	Or	Th	Pr	Au	Cr
INFO0085-1	*Compilers* (english language) - Pascal FONTAINE - [75h Proj.] **Corequisite :** INFO0940-1 - Operating systems INFO0012-2 - Computation structures INFO0016-1 - Introduction to the theory of computation	Q2	25	-	[+]	5
ELEN0062-1	*Introduction to machine learning* (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	5
INFO0016-1	*Introduction to the theory of computation* (english language) -	Q1	26	26	-	5

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INFO0940-1	*Operating systems* (english language) - Laurent MATHY - [30h Proj.] **Corequisite :** INFO9012-1 - Parallel Programming INFO0012-2 - Computation structures	Q2	30	6	[+]	**5**
ELEN0060-2	*Information and coding theory* (english language) - Louis WEHENKEL - [30h Proj.]	Q2	30	15	[+]	**5**
GEST3162-1	*Principles of management* (english language) - Michaël PARMENTIER - [25h Proj.]	Q1	30	-	[+]	**5**
PROJ0010-1	*Software project engineering and management* (english language) - Benoît DONNET, Bernard HAUZEUR, Guy LEDUC, Laurent MATHY - [280h Proj.] **Prerequisite :** INFO0062-1 - Object-oriented programming **Corequisite :** INFO0010-4 - Introduction to computer networking INFO0902-1 - Structures des données et algorithmes	TA	20	-	[+]	**10**

Optional courses from the core curriculum

Choose remaining credits in the lists below :

Optional courses outside the focus

Computer Science foundation courses

The following courses are corequisite to some compulsory courses of the master program. They must be taken as a priority, unless they were already taken as part of the bachelor of science in engineering, or unless the corresponding knowledge and skills have been acquired previously.

INFO0902-1	*Data structures and algorithms* - Pierre GEURTS - [40h Proj.]	Q2	26	20	[+]	**5**
INFO0010-4	*Introduction to computer networking* (english language) - Guy LEDUC - [12h Labo., 40h Proj.]	Q1	32	2	[+]	**5**
INFO0012-2	*Computation structures* (english language) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	Q1	26	26	[+]	**5**
INFO0062-1	*Object-oriented programming* (english language) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	**5**
INFO9012-1	*Parallel Programming* (english language) - Pascal FONTAINE	Q2	25	25	-	**5**

Computer systems security

INFO0031-1	*Network Engineering* (english language) - Benoît DONNET, Guy LEDUC - [12h Labo., 30h Proj.]	Q2	30	-	[+]	**5**
INFO0045-3	*Introduction to computer security* (english language) - Benoît DONNET - [10h Labo., 30h Proj.] **Corequisite :** INFO0010-4 - Introduction to computer networking INFO0012-2 - Computation structures INFO0902-1 - Structures des données et algorithmes	Q1	30	6	[+]	**5**
INFO0056-1	*Securing Networks* (english language) - Guy LEDUC - [12h Labo., 30h Proj.] (Even years) **Corequisite :** INFO0010-4 - Introduction to computer networking INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	**5**
INFO0939-1	*High performance scientific computing* (english language) - Christophe GEUZAINE - [20h Proj.]	Q1	30	15	[+]	**5**
INFO8002-1	*Topics in Distributed Systems* (english language) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Guy LEDUC, Laurent MATHY -	Q2	30	-	[+]	**5**

[35h Proj.] (Odd years)

INFO8012-1	*Digital Forensics* (english language) - Benoît Donnet, Laurent Mathy - [12h Labo., 30h Proj.] (Even years)	Q2	30	-	[+]	**5**

Prerequisite :
INFO0940-1 - Operating systems
Corequisite :
INFO0010-4 - Introduction to computer networking
INFO0085-1 - Compilers

INFO8011-1	*Network infrastructures* (english language) - Benoît Donnet, Guy Leduc, Laurent Mathy - [8h Labo., 30h Proj.]	Q1	30	-	[+]	**5**

Corequisite :
INFO0010-4 - Introduction to computer networking

INFO8013-1	*Advanced Computer Security* (english language) - Benoît Donnet, Laurent Mathy - [20h Labo., 30h Proj.] (Odd years)	Q2	20	-	[+]	**5**

Corequisite :
INFO0045-3 - Introduction to computer security

Intelligent Systems

INFO8010-1	*Deep learning* (english language) - Gilles Louppe - [60h Proj.]	Q2	30	-	[+]	**5**

Corequisite :
ELEN0062-1 - Introduction to machine learning

ELEN0016-2	*Computer vision* (english language) - Anthony Cioppa, Marc Van Droogenbroeck - [50h Proj.]	Q1	30	10	[+]	**5**
INFO9015-1	*Logic for Computer Science* (english language) - Pascal Fontaine	Q1	24	20	-	**5**
INFO0948-2	*Introduction to intelligent robotics* (english language) - Pierre Sacré - [80h Proj.]	Q2	30	4	[+]	**5**

Corequisite :
ELEN0016-2 - Computer vision
ELEN0062-1 - Introduction to machine learning

INFO2049-1	*Web and Text Analytics* (english language) - Ashwin Ittoo	Q1	30	-	-	**5**
GBIO0002-1	*Genetics and bioinformatics* (english language) - Franck Dequiedt, Kristel Van Steen - [15h Proj.]	Q1	30	15	[+]	**5**
INFO8003-1	*Reinforcement learning* (english language) - Damien Ernst - [45h Proj.]	Q2	25	10	[+]	**5**
INFO8004-1	*Advanced Machine learning* (english language) - Pierre Geurts, Gilles Louppe, Louis Wehenkel - [20h Proj.]	Q2	25	-	[+]	**5**

Corequisite :
INFO8010-1 - Deep learning
ELEN0062-1 - Introduction to machine learning

INFO8006-1	*Introduction to artificial intelligence* (english language) - Gilles Louppe - [45h Proj.]	Q1	25	20	[+]	**5**
INFO9014-1	*Knowledge representation and reasoning* (english language) - Christophe Debruyne - [45h Proj.]	Q2	24	20	[+]	**5**

Corequisite :
INFO9015-1 - Logic for Computer Science

Other optional courses

INFO9015-1	*Logic for Computer Science* (english language) - Pascal Fontaine	Q1	24	20	-	**5**
INFO9016-1	*Advanced Databases* (english language) - Christophe Debruyne - [20h Proj.]	Q2	24	20	[+]	**5**
INFO0064-2	*Embedded systems* (english language) - Bernard Boigelot	Q1	25	20	-	**3**
INFO2055-1	*Embedded systems project* (english language) - Bernard Boigelot - [60h Proj.]	Q2	-	-	[+]	**2**

Corequisite :

INFO0064-2 - Embedded systems

INFO2051-1	*Object-oriented programming on mobile devices* (english language) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	**5**
INFO0060-1	*Introduction to computer systems verification* (english language) - Bernard BOIGELOT, Pascal FONTAINE - [20h Proj.] **Corequisite :** INFO0016-1 - Introduction to the theory of computation INFO9015-1 - Logic for Computer Science	Q2	20	20	[+]	**5**
INFO0027-2	*Programming techniques* (english language) - *Algorithmics* - Laurent MATHY - [40h Proj.] - *Software patterns* - Laurent MATHY - [30h Proj.]	Q2 	 14 10	 14 10	 [+] [+]	**5**
MATH0461-2	*Introduction to numerical optimization* (english language) - Quentin LOUVEAUX - [25h Proj.]	Q1	30	20	[+]	**5**
MATH0462-1	*Discrete optimization* (english language) - Quentin LOUVEAUX - [25h Proj.]	Q2	30	20	[+]	**5**
GBIO0030-1	*Computational approaches to statistical generics* (english language) - Kristel VAN STEEN - [35h Proj.] **Prerequisite :** GBIO0002-1 - Genetics and bioinformatics	Q2	25	15	[+]	**5**
MECA0524-1	*CAD & Geometric Algorithms* - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	**5**
INFO0004-2	*Object-oriented programming projects* (english language) - Laurent MATHY - [90h Proj.]	Q2	20	-	[+]	**5**
GBIO0031-1	*Learning from genomic data* (english language) - Kristel VAN STEEN - [150h Proj.]	Q2	-	-	[+]	**5**
INFO9023-1	*Machine Learning Systems Design* (english language) - Thomas VRANCKEN - [17h Labo., 18h Proj.] **Corequisite :** ELEN0062-1 - Introduction to machine learning	Q2	17	-	[+]	**5**

Internships and projects (maximum 15 credits)

PROJ0011-1	*Personal student project* (english language) - Bernard BOIGELOT, COLLÉGIALITÉ - [150h Proj.]	TA	-	-	[+]	**5**

Block 2

Optional courses within the focus

Students choosing this focus shall select 15 credits of elective courses inside the focus. The remaining credits can be taken inside or outside the focus.

ELEN0016-2	*Computer vision* (english language) - Anthony CIOPPA, Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	**5**
INFO0948-2	*Introduction to intelligent robotics* (english luaguage) - Pierre SACRÉ - [80h Proj.]	Q2	30	4	[+]	**5**
INFO2049-1	*Web and Text Analytics* (english language) - Ashwin ITTOO **Corequisite :** ELEN0062-1 - Introduction to machine learning	Q1	30	-	-	**5**
GBIO0002-1	*Genetics and bioinformatics* (english language) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	Q1	30	15	[+]	**5**
DROI1357-1	*European law, (big) data and artificial intelligence applications seminar* (english language) - Ljupcho GROZDANOVSKI	Q1	24	-	-	**5**
INFO8003-1	*Reinforcement learning* (english language) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]	**5**
INFO8004-1	*Advanced Machine learning* (english language) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.]	Q2	25	-	[+]	**5**
INFO8006-1	*Introduction to artificial intelligence* (english language) - Gilles LOUPPE -	Q1	25	20	[+]	**5**

[45h Proj.]

Code	Course	Q	h	h		ECTS
INFO9014-1	*Knowledge representation and reasoning* (english language) - Christophe DEBRUYNE - [45h Proj.] **Corequisite :** INFO9015-1 - Logic for Computer Science	Q2	24	20	[+]	**5**
INFO9023-1	*Machine Learning Systems Design* (english language) - Thomas VRANCKEN - [17h Labo., 18h Proj.] **Corequisite :** ELEN0062-1 - Introduction to machine learning	Q2	17	-	[+]	**5**

Compulsory courses from the core curriculum

ATFE0015-1	*Master thesis* (english language) - COLLÉGIALITÉ, Laurent MATHY - [750h Proj.]	TA	-	-	[+]	**25**

Optional courses from the core curriculum

Choose remaining credits in the lists below :

Optional courses outside the focus

Computer Science foundation courses

The following courses are corequisite to some compulsory courses of the master program. They must be taken as a priority, unless they were already taken as part of the bachelor of science in engineering, or unless the corresponding knowledge and skills have been acquired previously.

Computer systems security

INFO0031-1	*Network Engineering* (english language) - Benoît DONNET, Guy LEDUC - [12h Labo., 30h Proj.]	Q2	30	-	[+]	**5**
INFO0045-3	*Introduction to computer security* (english language) - Benoît DONNET - [10h Labo., 30h Proj.] **Corequisite :** INFO0010-4 - Introduction to computer networking INFO0012-2 - Computation structures INFO0902-1 - Structures des données et algorithmes	Q1	30	6	[+]	**5**
INFO0056-1	*Securing Networks* (english language) - Guy LEDUC - [12h Labo., 30h Proj.] (Even years) **Corequisite :** INFO0010-4 - Introduction to computer networking INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	**5**
INFO0939-1	*High performance scientific computing* (english language) - Christophe GEUZAINE - [20h Proj.]	Q1	30	15	[+]	**5**
INFO8002-1	*Topics in Distributed Systems* (english language) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Guy LEDUC, Laurent MATHY - [35h Proj.] (Odd years)	Q2	30	-	[+]	**5**
INFO8012-1	*Digital Forensics* (english language) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (Even years) **Prerequisite :** INFO0940-1 - Operating systems **Corequisite :** INFO0010-4 - Introduction to computer networking INFO0085-1 - Compilers	Q2	30	-	[+]	**5**
INFO8011-1	*Network infrastructures* (english language) - Benoît DONNET, Guy LEDUC, Laurent MATHY - [8h Labo., 30h Proj.] **Corequisite :** INFO0010-4 - Introduction to computer networking	Q1	30	-	[+]	**5**
INFO8013-1	*Advanced Computer Security* (english language) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (Odd years)	Q2	20	-	[+]	**5**

Corequisite :
INFO0045-3 - Introduction to computer security

Intelligent Systems

INFO8010-1	*Deep learning* (english language) - Gilles LOUPPE - [60h Proj.]	Q2	30	-	[+]	**5**

Corequisite :
ELEN0062-1 - Introduction to machine learning

ELEN0016-2	*Computer vision* (english language) - Anthony CIOPPA, Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	**5**
INFO9015-1	*Logic for Computer Science* (english language) - Pascal FONTAINE	Q1	24	20	-	**5**
INFO0948-2	*Introduction to intelligent robotics* (english language) - Pierre SACRÉ - [80h Proj.]	Q2	30	4	[+]	**5**

Corequisite :
ELEN0016-2 - Computer vision
ELEN0062-1 - Introduction to machine learning

INFO2049-1	*Web and Text Analytics* (english language) - Ashwin ITTOO	Q1	30	-	-	**5**
GBIO0002-1	*Genetics and bioinformatics* (english language) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	Q1	30	15	[+]	**5**
INFO8003-1	*Reinforcement learning* (english language) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]	**5**
INFO8004-1	*Advanced Machine learning* (english language) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.]	Q2	25	-	[+]	**5**

Corequisite :
INFO8010-1 - Deep learning
ELEN0062-1 - Introduction to machine learning

INFO8006-1	*Introduction to artificial intelligence* (english language) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]	**5**
INFO9014-1	*Knowledge representation and reasoning* (english language) - Christophe DEBRUYNE - [45h Proj.]	Q2	24	20	[+]	**5**

Corequisite :
INFO9015-1 - Logic for Computer Science

Other optional courses

INFO9015-1	*Logic for Computer Science* (english language) - Pascal FONTAINE	Q1	24	20	-	**5**
INFO9016-1	*Advanced Databases* (english language) - Christophe DEBRUYNE - [20h Proj.]	Q2	24	20	[+]	**5**
INFO0064-2	*Embedded systems* (english language) - Bernard BOIGELOT	Q1	25	20	-	**3**
INFO2055-1	*Embedded systems project* (english language) - Bernard BOIGELOT - [60h Proj.]	Q2	-	-	[+]	**2**

Corequisite :
INFO0064-2 - Embedded systems

INFO2051-1	*Object-oriented programming on mobile devices* (english language) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	**5**
INFO0060-1	*Introduction to computer systems verification* (english language) - Bernard BOIGELOT, Pascal FONTAINE - [20h Proj.]	Q2	20	20	[+]	**5**

Corequisite :
INFO0016-1 - Introduction to the theory of computation
INFO9015-1 - Logic for Computer Science

INFO0027-2	*Programming techniques* (english language)	Q2				**5**
	- *Algorithmics* - Laurent MATHY - [40h Proj.]		14	14	[+]	
	- *Software patterns* - Laurent MATHY - [30h Proj.]		10	10	[+]	
MATH0461-2	*Introduction to numerical optimization* (english language) - Quentin LOUVEAUX - [25h Proj.]	Q1	30	20	[+]	**5**
MATH0462-1	*Discrete optimization* (english language) - Quentin LOUVEAUX - [25h	Q2	30	20	[+]	**5**

Proj.]

GBIO0030-1	*Computational approaches to statistical generics* (english language) - Kristel VAN STEEN - [35h Proj.] **Prerequisite :** GBIO0002-1 - Genetics and bioinformatics	Q2	25	15	[+]	**5**
MECA0524-1	*CAD & Geometric Algorithms* - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	**5**
INFO0004-2	*Object-oriented programming projects* (english language) - Laurent MATHY - [90h Proj.]	Q2	20	-	[+]	**5**
GBIO0031-1	*Learning from genomic data* (english language) - Kristel VAN STEEN - [150h Proj.]	Q2	-	-	[+]	**5**
INFO9023-1	*Machine Learning Systems Design* (english language) - Thomas VRANCKEN - [17h Labo., 18h Proj.] **Corequisite :** ELEN0062-1 - Introduction to machine learning	Q2	17	-	[+]	**5**

[...]   With the agreement of the jury, choose 5 credits in any course programme of the University or from the UNIC course catalog.

Internships and projects (maximum 15 credits)

ASTG9005-1	*Research Internship* (english language) - Benoît DONNET - [300h Proj.] **Prerequisite :** PROJ0010-1 - Software project engineering and management	TA	-	-	[+]	**10**
ASTG0021-1	*Technical company internship* (english language) - Laurent MATHY - [300h Proj.] **Prerequisite :** PROJ0010-1 - Software project engineering and management *Notice* : the two company internships are mutually exclusive	TA	-	-	[+]	**10**
PROJ0011-1	*Personal student project* (english language) - Bernard BOIGELOT, COLLÉGIALITÉ - [150h Proj.]	TA	-	-	[+]	**5**

Bloc d'aménagement du programme de l'année

Crédits supplémentaires Master en ingénieur civil en informatique (120 ECTS) 2024-2025

Compulsory Courses

Students that are admitted to the master of science in Computer Science and Engineering without having obtained a degree of bachelor in engineering must add to their programme the following list of courses, to be taken in the first year of the master.

MATH0495-1	*Elements for calculating probabilities* - *Part 1: Analysis tools for probabilities* - Laurent LOOSVELDT - *Part 2: Probability theory* - Laurent LOOSVELDT		6 20	- -	- -	**5**
MATH0006-3	*Introduction to numerical analysis* (english language) - Quentin LOUVEAUX	Q1	20	20	-	**4**
INFO0054-1	*Functional programming* - Christophe DEBRUYNE - [20h Proj.]	Q1	24	24	[+]	**5**
INFO0030-3	*Programming Projects* - Benoît DONNET - [100h Proj.]	Q2	20	-	[+]	**5**
ELEN0040-1	*Digital electronics* (english language) - JeanMichel REDOUTÉ	Q2	26	26	-	**5**
MATH0013-1	*Algebra* - Eric DELHEZ	Q1	26	26	-	**5**
MECA0003-2	*Rational Mechanics* - Eric DELHEZ	Q1	20	30	-	**4**
LANG6011-1	*Remedial English for Computer Science* (english language) -	Q2	3	27	-	**3**

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DROI0101-1	*Computer Law Contracts* - Benoît KOHL	Q2	30	-	-	**4**
GENV0002-1	*Energy and sustainable development* - Pierre DEWALLEF, Damien ERNST, Sigrid REITER - [20h Proj.]	Q2	26	8	[+]	**3**
MATH0504-1	*Applied mathematics* - Benjamin DEWALS, Christophe GEUZAINE	Q1	26	26	-	**5**

Additional ECTS Master of science in computer science and engineering

Compulsory Courses

Students that are admitted to the master of science in Computer Science and Engineering without having obtained a degree of bachelor in engineering must add to their programme the following list of courses, to be taken in the first year of the master.

MATH0495-1	*Elements for calculating probabilities*					**3**
	- Part 1: Analysis tools for probabilities - Laurent LOOSVELDT		6	-	-	
	- Part 2: Probability theory - Laurent LOOSVELDT		20	-	-	
MATH0006-3	*Introduction to numerical analysis* (english language) - Quentin LOUVEAUX	Q1	20	20	-	**4**
INFO0054-1	*Functional programming* - Christophe DEBRUYNE - [20h Proj.]	Q1	24	24	[+]	**5**
INFO0030-3	*Programming Projects* - Benoît DONNET - [100h Proj.]	Q2	20	-	[+]	**5**
ELEN0040-1	*Digital electronics* (english language) - JeanMichel REDOUTÉ	Q2	26	26	-	**5**
MATH0013-1	*Algebra* - Eric DELHEZ	Q1	26	26	-	**5**
MECA0003-2	*Rational Mechanics* - Eric DELHEZ	Q1	20	30	-	**4**
LANG6011-1	*Remedial English for Computer Science* (english language) - Adnan VESSEUR	Q2	3	27	-	**3**
DROI0724-1	*Law and engineering* - Roman AYDOGDU, Christine BIQUET, Vanessa FRANSSEN, Fabienne KÉFER, Pascale LECOCQ, Bernard VANBRABANT, Philippe VINCENT	Q1	26	-	-	**2**
GENV0002-1	*Energy and sustainable development* - Pierre DEWALLEF, Damien ERNST, Sigrid REITER - [20h Proj.]	Q2	26	8	[+]	**3**
MATH0504-1	*Applied mathematics* - Benjamin DEWALS, Christophe GEUZAINE	Q1	26	26	-	**5**