Block view of the study programme

		Or	Th	Pr	Au	Cr
Block 1						
Course to be intended in order to obtain de Master's degree in computer science and engineering.						
Compulsory courses						
INFO0016-1	*Introduction to the theory of computation* (english language) - Quentin LOUVEAUX	Q1	26	26	-	**5**
ELEN0062-1	*Introduction to machine learning* (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	**5**
INFO0940-1	*Operating systems* (english language) - Laurent MATHY - [30h Proj.]	Q2	30	6	[+]	**5**
PROJ0010-1	*Software project engineering and management* (english language) - Benoît DONNET, Bernard HAUZEUR, Guy LEDUC, Laurent MATHY - [280h Proj.]	TA	20	-	[+]	**10**
PROJ0019-1	*End of studies project* (english language) - Laurent MATHY	TA	-	-	-	**10**
INFO0010-4	*Introduction to computer networking* (english language) - Guy LEDUC - [12h Labo., 40h Proj.]	Q1	35	2	[+]	**5**
The three courses below can be taken during the bachelor's degree or master's degree in business engineering, or added to the third year of the master's programme.						
MATH0002-4	*Mathematical analysis 1* - Eric DELHEZ	Q1	22	22	-	**4**
MECA0003-2	*Rational Mechanics* - Eric DELHEZ	Q1	20	30	-	**4**
SYST0002-2	*Introduction to signals and systems* - Guillaume DRION - [15h Proj.]	Q1	26	26	[+]	**5**
Optional courses						
Choose one focus from the following :						
Finalité spécialisée "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.]	Q1	30	6	[+]	**5**
Choose courses totalling 20 credits out of the following :						
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**
INFO2051-1	*Object-oriented programming on mobile devices* (english language) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	**5**
INFO0056-1	*Securing Networks* (english language) - Guy LEDUC - [12h Labo., 30h Proj.] (Even years)	Q2	30	-	[+]	**5**
INFO0939-1	*High performance scientific computing* (english language) - Christophe GEUZAINE - [20h Proj.]	Q1	30	15	[+]	**5**
INFO8002-1	*Large-scale data systems* (english language) - Gilles LOUPPE - [45h Proj.]	Q1	25	10	[+]	**5**
INFO8012-1	*Digital Forensics* (english language) - [12h Labo., 30h Proj.] (Even years)	Q2	30	-	[+]	**5**
INFO8011-1	*Network infrastructures* (english language) - Benoît DONNET, Guy LEDUC, Laurent MATHY - [12h Labo., 30h Proj.] (Odd years)	Q1	30	-	[+]	**5**
INFO8013-1	*Advanced Computer Security* (english language) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (Odd years)	Q2	20	-	[+]	**5**

Professional focus: "Intelligent systems"

INFO8010-1	*Deep learning* (english language) - Gilles LOUPPE - [55h Proj.]	Q2	25	10	[+]	**5**
SYST0003-1	*Linear control systems* (english language) - *Theory* - Guillaume DRION - *Control system design in time domain and frequency domain* - Guillaume DRION - [6h Labo.]	Q1	26 -	6 20	- [+]	**5**

Choose courses totalling 20 credits out of the following :

ELEN0016-2	*Computer vision* (english language) - 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	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) - - Suppl : Ljupcho GROZDANOVSKI	Q1	24	-	-	**5**
INFO8003-1	*Optimal decision making for complex problems* (english language) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]	**5**
INFO8004-1	*Advanced Machine learning* (english language) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [45h Proj.]	Q2	25	-	[+]	**5**
INFO9014-1	*Knowledge representation and reasoning* (english language) - Christophe DEBRUYNE	Q2	24	20	-	**5**
INFO8006-1	*Introduction to artificial intelligence* (english language) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]	**5**