

## Cycle view of the study programme

B1 Or Th Pr Au Cr

Course to be intended in order to obtain de Master's degree in computer science.

### Focus compulsory courses (B1 : 5Cr)

INFO8010-1 *Deep learning* (english language) - Gilles LOUPPE - [60h Proj.] B1 Q2 30 - [+] 5

### Focus optional courses (B1 : 25Cr)

Choose 25 credits from: (B1 : 25Cr)

Basic course in IT

The following courses (INFO8006-, INFO0010-4) are prerequisites for certain compulsory classes in the Master's programme. They must be taken as a priority, unless they have already been passed as part of another programme, or if the corresponding knowledge and skills have been previously acquired.

INFO8006-1 *Introduction to artificial intelligence* (english language) - Gilles LOUPPE - [45h Proj.] B1 Q1 25 20 [+] 5

*Notice* : Prerequisite for the ELEN0062-1 course

INFO0010-4 *Introduction to computer networking* (english language) - Guy LEDUC - [12h Labo., 40h Proj.] B1 Q1 32 2 [+] 5

*Notice* : Prerequisite for the PROJ0010-1 course

ELEN0016-2 *Computer vision* (english language) - Anthony CIOPPA, Marc VAN DROOGENBROECK - [50h Proj.] B1 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) - Jérôme DE COOMAN, 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

INFO9014-1 *Knowledge representation and reasoning* (english language) - Christophe DEBRUYNE - [45h Proj.] - Q2 24 20 [+] 5

### Core curriculum compulsory courses (B1 : 40Cr)

INFO0016-1 *Introduction to the theory of computation* (english language) - Quentin LOUVEAUX B1 Q1 26 26 - 5

ELEN0062-1 *Introduction to machine learning* (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.] B1 Q1 30 5 [+] 5

INFO0940-1 *Operating systems* (english language) - Laurent MATHY - [30h Proj.] B1 Q2 30 6 [+] 5

PROJ0010-1 *Software project engineering and management* (english language) - Benoît DONNET, Bernard HAUZEUR, Guy LEDUC, Laurent MATHY - [280h Proj.] B1 TA 20 - [+] 10

PROJ0019-1 *End of studies project* (english language) - Laurent MATHY - [300h Proj.] B1 TA - - [+] 10

INFO0012-2 *Computation structures* (english language) - Pascal FONTAINE, Laurent MATHY - [40h Proj.] B1 Q1 26 26 [+] 5