UCL Faculté des sciences

SC

MATH2450 Logique mathématique

[45h] 4.5 credits

This course is taught in the 1st and 2nd semester

Teacher(s): Jean-Roger Roisin
Language: french
Level: 2nd cycle course

Aims

To allow the mastering student to acquire the basic tools in one of the fundamental fields of mathematical logic.

Main themes

This course is for students in their first or second masters' year in mathematical science. It supposes a reasonable knowledge in elementary logic such as the one given in the "Notions of mathematical logic" course (SC1110, 2nd year). The content of the course follows a three-year cycle corresponding to three main orientations of mathematical logic: 1) The group theory (Zermelo-Frankel axioms, ordinals, relative constistance proff, etc..). Planned for 2002-2003. 2) The notions of calculability and incompletion theorems (Turing machines or the like, recursive functions, Gödel and Tarski results, etc.). Planned for 2003-2004. 3) Model theory (completion, axiomability, type omission, countable models, etc.), planned for 2001-2002).

Other credits in programs

INFO22	Deuxième année du programme conduisant au grade d'ingénieur civil informaticien	(4.5 credits)
MATH21/G	Première licence en sciences mathématiques (Général)	(4.5 credits)
MATH22/E	Deuxième licence en sciences mathématiques (Economie mathématique)	(4.5 credits)
MATH22/G	Deuxième licence en sciences mathématiques	(4.5 credits)
MATH22/S	Deuxième licence en sciences mathématiques (Statistique)	(4.5 credits)