

## LINMA2472

2014-2015

## Advanced topics in discrete mathematics

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Teacher(s) :	Delvenne Jean-Charles ; Blondel Vincent (coordinator) ; Krings Gautier (compensates Blondel Vincent) ;
Language :	Français
Place of the course	Louvain-la-Neuve
Inline resources:	> http://icampus.uclouvain.be/claroline/course/index.php?cid=LINMA2472
Prerequisites :	A sufficient knowledge of linear algebra and graph theory is required (such as given in LFSAB1101, LFSAB1102, LINMA1691).
Main themes :	The course offers an introduction to an advanced and (if possible) current issue of discrete mathematics.
Aims:	Learning outcomes:
Evaluation methods :	Oral exam with written preparation.
Teaching methods:	In part ex cathedra, and in part presented by the students themselves based on a book chapter of other documents.
Content :	The course contents may vary from one year to another and can tackle, for example, graphs and networks issues, discrete dynamical systems, coding, data mining, algorithmics, and questions at the interface with theoretical computer science.
Bibliography :	Variable.
Cycle and year of study :	> Master [120] in Mathematical Engineering
Faculty or entity in charge:	MAP