# LINMA2472

## 2012-2013

# Advanced topics in discrete mathematics

| 5.0 credits | 30.0 h + 22.5 h | 1q |
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| Teacher(s) : | Blondel Vincent (coordinator) ; Delvenne Jean-Charles ; |
| Language : | Français |
| Place of the course | Louvain-la-Neuve |
| Main themes : | The course offers an introduction to an advanced and (if possible) current issue of discrete mathematics. |
| Aims : | Show the usefulness of discrete mathematics as a modelling tool. Develop in an advanced way a particular topic, possibly associated with an application.<br><br>*The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".* |
| Content : | The course contents may vary from one year to another and can tackle, for example, graphs and networks issues, discrete dynamical systems, coding, datamining, algorithmics, and questions at the interface of theoretical computing. |
| Other infos : | A sufficient knowledge of linear algebra and graph theory is required. |
| Cycle and year of study : | > Master [120] in Mathematical Engineering |
| Faculty or entity in charge: | MAP |