








In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

|           |                 |    |
|-----------|-----------------|----|
| 5 credits | 30.0 h + 15.0 h | Q1 |
|-----------|-----------------|----|

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|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Teacher(s)                  | Pereira Olivier ;Tignol Jean-Pierre ;                                                                                                                                                                                                                                                                                                    |
| Language :                  | French                                                                                                                                                                                                                                                                                                                                   |
| Place of the course         | Louvain-la-Neuve                                                                                                                                                                                                                                                                                                                         |
| Aims                        | <i>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".</i>                                                                                 |
| Bibliography                | R. Crandall, C.B. Pomerance : Prime Numbers: A Computational Perspective, Springer,2005.<br>K. Ireland, M. Rosen : A classical introduction to modern number theory, Springer, 2d edition, 1991.<br>N. Koblitz: A Course in Number Theory and Cryptography, Springer, 2nd edition, 1994.<br>J.P. Serre: Cours d'arithmétique, PUF, 1970. |
| Faculty or entity in charge | MATH                                                                                                                                                                                                                                                                                                                                     |

| Programmes containing this learning unit (UE)        |                           |         |              |                                                                                     |
|------------------------------------------------------|---------------------------|---------|--------------|-------------------------------------------------------------------------------------|
| Program title                                        | Acronym                   | Credits | Prerequisite | Aims                                                                                |
| Master [120] in Data Science Engineering             | <a href="#">DATE2M</a>    | 5       |              |  |
| Master [120] in Mathematics                          | <a href="#">MATH2M</a>    | 5       |              |  |
| Master [120] in Computer Science and Engineering     | <a href="#">INFO2M</a>    | 5       |              |  |
| Master [120] in Mathematical Engineering             | <a href="#">MAP2M</a>     | 5       |              |  |
| Master [120] in Electrical Engineering               | <a href="#">ELEC2M</a>    | 5       |              |  |
| Master [120] in Data Science: Information Technology | <a href="#">DATI2M</a>    | 5       |              |  |
| Additional module in Mathematics                     | <a href="#">LMATH100P</a> | 5       |              |  |