**UCLouvain**

**lsinc1313**

*2024*

# Numerical algorithmic

| 5.00 credits | 30.0 h + 30.0 h | Q1 |
|---|---|---|

**This learning unit is not open to incoming exchange students!**

| Teacher(s) | Jodogne Sébastien ;Massart Estelle ; |
|---|---|
| Language : | French |
| Place of the course | Charleroi |
| Prerequisites | *The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.* |
| Learning outcomes | **At the end of this learning unit, the student is able to :** |

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| | Given the learning outcomes of the "Bachelor in Computer science" program, this course contributes to the development, acquisition and evaluation of the following learning outcomes: | |
| A.A. S1.G1, S1.3 - A.A. S2.2, S2.4 - A.A S6.1 | • S1.G1, S1.3<br>• S2.2, S2.4<br>• S6.1<br><br>Students who have successfully completed this course will be able to:<br><br>• model a simple problem using the proper mathematical notation,<br>• identify classical numerical methods suitable for solving a simple problem expressed mathematically,<br>• choose, on the basis of precise criteria, the most effective method for numerically solving such a problem,<br>• implement a numerical resolution of this simple problem,<br>• explain the problems related to the numerical resolution of equations and their impacts: rounding errors, convergence, stopping criteria. | |
| Evaluation methods | | |

| Programmes containing this learning unit (UE) | | | | |
|---|---|---|---|---|
| Program title | Acronym | Credits | Prerequisite | Learning outcomes |
| Bachelor in Computer Science | SINC1BA | 5 | LSINC1101 AND LSINC1111 AND LSINC1112 | 🔍 |