

2.00 credits

30.0 h

Q2

|                             |  |
|-----------------------------|--|
| Teacher(s)                  | Pence Charles ;Verdée Peter ;  |
| Language :                  | French   |
| Place of the course         | Louvain-la-Neuve   |
| Learning outcomes           |  |
| Evaluation methods          | In the June session and the August session: a group written work (50%) and a defense of this work at the oral exam (50%).  |
| Teaching methods            | Lectures given by the two professors, with a significant role for discussions with and between the students.   |
| Content                     | <p><b>A philosophical reflection on inference</b></p> <p>This course will present some themes in contemporary philosophy related to the concept of inference. In science, in mathematics, as well as in daily life, we begin from the facts and data that we know in order to draw further consequences. Every even number is divisible by two, and eight is even, so eight is divisible by two. The sun has risen every morning, so it will do so tomorrow morning, too. The grass in front of the house is wet, but it hasn't rained, so my neighbor must have watered it.</p> <p>We will explore all these forms of inference. When are they legitimate? How can we justify them? How are they used in different areas of science and mathematics? Can we analyze them formally, and if so, in what conditions? In exploring these questions, we will describe the role played by inference in the generation of knowledge.</p> |
| Inline resources            | All readings and slides available on the Moodle site for the course.   |
| Faculty or entity in charge | SC   |

| Programmes containing this learning unit (UE)                  |         |         |              |   |
|--|---------|---------|--------------|---|
| Program title  | Acronym | Credits | Prerequisite | Learning outcomes   |
| Master [120] in Data Science :<br>Statistic                    | DATS2M  | 2       |              |    |
| Master [120] in Geography :<br>Climatology                     | CLIM2M  | 2       |              |    |
| Master [120] in Biology of<br>Organisms and Ecology            | BOE2M   | 2       |              |    |
| Master [60] in Physics   | PHYS2M1 | 2       |              |    |
| Master [60] in Geography :<br>General                          | GEOG2M1 | 2       |              |    |
| Master [120] in Biochemistry<br>and Molecular and Cell Biology | BBMC2M  | 2       |              |    |
| Master [120] in Statistics:<br>Biostatistics                   | BSTA2M  | 2       |              |    |
| Master [60] in Biology   | BIOL2M1 | 2       |              |   |
| Master [120] in Mathematics                                    | MATH2M  | 2       |              |  |
| Master [60] in Mathematics                                     | MATH2M1 | 2       |              |  |
| Master [120] in Chemistry                                      | CHIM2M  | 2       |              |  |
| Master [120] in Statistics:<br>General                         | STAT2M  | 2       |              |  |
| Master [120] in Physics  | PHYS2M  | 2       |              |  |
| Master [60] in Chemistry                                       | CHIM2M1 | 2       |              |  |
| Master [120] in Geography :<br>General                         | GEOG2M  | 2       |              |  |