# Logic (Second-level Degree)

## Prof. Ciro De Florio

***COURSE AIMS AND INTENDED LEARNING OUTCOMES***

The aim of the course is to offer an overview of the relationship between logic and philosophy. Two conceptual directions will be examined: the crucial role that formal systems play in philosophical argumentation and the general philosophical relevance of certain logics. In other words, the course is an introduction to both philosophical logic and the philosophy of logic. The most important systems of logic will be illustrated to capture the notions of possibility, negation, consequence, existence, time, becoming. At the end of the course, students will be able to orient themselves in the contemporary debate and will have acquired the foundations for a formal approach to philosophical knowledge.

***COURSE CONTENT***

0. *What is logic? What is it for*?

1. *Logical consequence and truth*

2. *Logic and existence*

3. *Logic and possibility*

4. *Logic and probability*

5. *Logic and rationality*

***READING LIST***

The reading list material consists of lecture notes and any additions that will be provided during the course. The following are some recommended textbooks:

S.O. Hansson, V.F.Hendricks (eds.), *Introduction to Formal Philosophy*, Springer 2018.

E. Steinhart, *More Precisely. The Math you Need to Do Philosophy*, Broad View Press 2018.

D. Papineau, *Philosophical Devices*, Oxford University Press 2012.

S. Read, *Thinking about Logic*, Oxford University Press 1995.

Details of ample reading material will be provided during the course on the Blackboard platform.

***TEACHING METHOD***

Frontal lectures and possible seminars in relation to the participants’ characteristics.

***ASSESSMENT METHOD AND CRITERIA***

Oral exam, aimed to test the students’ knowledge of the logic demonstration and argumentation techniques explained during the course, as well as their ability to reformulate, from a critical perspective, useful topics to be used in philosophical research. The final mark will result from the following assessment criteria: knowledge of the topics analysed during the exam (50%); clarity of expression and conceptual precision (50%).

***NOTES AND PREREQUISITES***

It is recommended (but not mandatory) to have previously attended an introductory Logic course.

In case the current Covid-19 health emergency does not allow frontal teaching, remote teaching will be carried out following procedures that will be promptly notified to students.

Further information can be found on the lecturer's webpage at http://docenti.unicatt.it/web/searchByName.do?language=ENG or on the Faculty notice board.