General Information	
Academic subject	Logic and philosophy of science
Degree course	Philosophy
Academic Year	2021-2022
ECTS credits	9
Compulsory attendance	No
Language	Italiano

Subject teacher	Name Surname	Mail address	SSD
	Luca Francesco San Mauro		M-FIL/02

ECTS credits details			
Basic teaching activities			

Class schedule	
Period	Second Semester
Year	2021/2022
Type of class	Lectures and seminars

Time management	
Hours	225
In-class study hours	63
Out-of-class study hours	162

Academic calendar	
Class begins	February 21, 2022
Class ends	May 13, 2022

Syllabus	
Prerequisites/requirements	
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	*Knowledge and understandingKnowledge about the delicate interplay between the key concepts of classical logic: truth, validity, provability, etc.* *Applying knowledge and understanding* *Using classical logic to formalize statements coming from both ordinary and scientific discourse.* *Making informed judgements and choices* *Judging which arguments are logically sound.* *Communicating knowledge and understanding* Communicating both the formal aspects of logic and their philosophical environment. *Capacities to continue learning* *Developing the ability of understanding philosophical texts which adopt symbolic logic.*
Contents	The course proposes an introduction to classical logic. We will mainly focus on propositional and first-order logic, with special attention paid to the connection between logic and philosophy of science.

Course program	
Bibliography	– V. Halbach, *Manuale di logica*, Mimesis (2016) – P. Smith, *An introduction to formal logic*, Cambridge University Press (2020) – Course slides
Notes	
Teaching methods	Lectures with high engagment of the students. To favour proper understanding of abstract notions, the teacher will offer a plethora of examples.
Assessment methods (indicate at least the type written, oral, other)	Oral exam
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are.	*Knowledge and understanding* The student should know the main concepts of classical logic, together with (part of) their philosophical content. *Applying knowledge and understanding* The student should be able to work within some logical systems, e.g., truth tables and natural deduction. *Making informed judgements and choices* The student should be able to judge whether a given argument is logically sound or not. *Communicating knowledge and understanding* The student should precisely communicate both the formal definitions of the logical concepts and their philosophical justification. *Capacities to continue learning* The student should be able to understand contemporary philosophical texts which adopt the logical formalism.
Further information	