COURSE OUTLINE

1. GENERAL

SCHOOL	NATURAL SCIENCES		
DEPARTMENT	MATHEMATICS		
LEVEL OF COURSE	UNDERGRADUATE		
COURSE CODE	MAT_DI362	**SEMESTER OF STUDIES**	6th
COURSE TITLE	INTRODUCTION TO PHILOSOPHY		

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	**TEACHING HOURS PER WEEK**	**ECTS CREDITS**
Lectures and Tutorials	4	6
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Elective course
PREREQUISITE COURSES:	Recommended prerequisite knowledge: ANALYTIC GEOMETRY, INTRODUCTION TO ALGEBRA AND SET THEORY
TEACHING AND ASSESSMENT LANGUAGE:	Greek
THE COURSE IS OFFERED TO ERASMUS STUDENTS	No
COURSE WEBPAGE (URL)	

2. LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning*

and Appendix B

- *Guidelines for writing Learning Outcomes*

Students who select this course will have the opportunity to be introduced to philosophical inquiry and argumentation, especially regarding scientific knowledge, logic and mathematics, and to reconsider critically their own knowledge and beliefs.

Upon successful completion of the course, students should have understood:

- the fields and the history of philosophy in general
- the special philosophical directions since the 19th century which relate to and interact with the development of natural sciences and mathematics.

General Abilities

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	*Project planning and management*
Adapting to new situations	*Respect for difference and multiculturalism*
Decision-making	*Respect for the natural environment*
Working independently	*Showing social, professional and ethical responsibility and sensitivity to gender issues*
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*Others…*
Production of new research ideas	

- Autonomous work.
- Collaborative work.
- To study and work/think in an international environment.
- To develop creative and deductive thinking.

3. COURSE CONTENT

What Philosophy is about. Ontology, Philosophy of Knowledge and Ethics. Historical matters. Philosophy of Science or Epistemology? (a question). Formation of Modern Science. Descartes, John Locke, Berkeley, Hume, Kant. The nature of scientific practice, the case of Mathematics and Physics. Empiricism, Logical Positivism and the critique of Popper. Russell and Wittgenstein about the foundations of Mathematics. The concept of Mathematical Practice and Modes of Existence of mathematical “objects”. Semantics and interpretive models.

4. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD *Face-to-face, Distance learning, etc.*	Lectures (face to face)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES *Use of ICT in teaching, laboratory education, communication with students*	
TEACHING ORGANIZATION *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS*	

Activity	***Semester workload***
Lectures	55
Study (at their own)	80
Presentation and Discussion of Projects	12
Final Exam	3
Total number of hours for the Course (25 hours of work-load per ECTS credit)	***150***

STUDENT ASSESSEMNT *Description of the evaluation procedure* *Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	**Assessment Language:** Greek **Assessment Language for Erasmus students:** --- **Assessment methods:** ✓ Final exam ✓ Project performance Minimum passing grade: 5 Μαximum passing grade: 10

5. RECOMMENDED LITERATURE

(*in Greek*)

- Ρουσόπουλος Γεώργιος. *Γενική Επιστημολογία*. Εκδόσεις Οκτώ, 2017.
- Ρουσόπουλος Γεώργιος. *Γνωσιολογία*. Εκδόσεις Παπαζήση, 2017.

(*in English*

- Benacerraf P. and Putnam H. (editors). *Philosophy of Mathematics: Selected Readings*. Cambridge University Press, 1998.