

COURSE OUTLINE

1. OVERVIEW

FACULTY	FACULTY OF HUMANITIES AND SOCIAL SCIENCES		
SECTION	DEPARTMENT OF PRIMARY EDUCATION		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE TITLE			
Introduction to Philosophy of Science			
COURSE CODE	ΦΣ1510	SEMESTER	5, 7
HOURS per WEEK	3	ECTS	4
COURSE CATEGORY	Elective	COURSE TYPE	Scientific area
LANGUAGE OF INSTRUCTION AND EXAMINATIONS	Modern Greek	PREREQUISITES	
OFFERED TO ERASMUS	NO	ECLASS PAGE	https://eclass.uth.gr/courses/PRE_U_332/

2. LEARNING OUTCOMES

Learning Outcomes
The aim of the course is to introduce students to the central problems of contemporary philosophy of science. Upon successful completion of the course, students will be able to: understand the relationship between philosophy and the sciences; distinguish between the major currents of contemporary philosophy of science (verificationism, falsificationism, historicism, social constructivism, etc.); reconstruct the principal problems of contemporary philosophy of science (the problem of induction, the relationship between observation and theory, the problem of realism, etc.); understand and define key concepts in philosophy of science (induction, verification, falsification, experiment, scientific explanation, realism, etc.).
General Competencies
Critical and self-critical reflection Development of creative and critical thinking Development of analytical and synthetic abilities Development of the ability to simplify complex meanings for use in teaching

3. CONTENT

The course focuses on questions concerning the distinctive characteristics of scientific activity and scientific knowledge, the demarcation between science and non-science, the distinction between the natural and the social sciences, the concept of scientific explanation, the problem of induction, verificationist and falsificationist theories, the relationship between observation and theory, the relationship between theory and experiment, the problem of scientific realism, the challenges posed by instrumentalist and relativist accounts, the problem of truth, the historicist turn in the history of science, and social constructivism.
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4. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING MODE	In person		
USE OF ICT	Teaching: Lectures supported by PowerPoint presentations Communication: Webmail / eClass		
COMPULSORY ATTENDANCE	NO	MAXIMUM NUMBER OF ABSENCES:	
TEACHING ORGANIZATION	Activity		Semester Workload (hours)
	Lectures		39
	Study		59
	Examination		2

	Course total	100	
EVALUATION			
	Type	Format	Weighting
	Final written exam	Short Answer Questions	100%

5. RECOMMENDED BIBLIOGRAPHY

Core textbooks (available through the Eudoxus service)
Ladyman J. 2015. <i>Τι είναι η φιλοσοφία της επιστήμης</i> , μτφρ. Γ. Μαραγκός, Ηράκλειο: Πανεπιστημιακές Εκδόσεις Κρήτης
Chalmers F. A. 2012. <i>Τι είναι αυτό που το λέμε επιστήμη;</i> , μτφρ. Γ. Φουρτούνης, επιστ. επιμ. Α. Μπαλτάς, Ηράκλειο: Πανεπιστημιακές Εκδόσεις Κρήτης
Ψύλλος Σ. 2007. <i>Επιστήμη και αλήθεια. Δοκίμια στη φιλοσοφία της επιστήμης</i> , Αθήνα: Οκτώ
Other books / Notes
Κουζέλης Γ. (επιμ.) 1997. <i>Επιστημολογία. Κείμενα</i> , β' έκδ., Αθήνα: Νήσος
Μπαλτάς Α. & Στεργιόπουλος Κ. (επιμ.). 2013. <i>Φιλοσοφία και επιστήμες στον εικοστό αιώνα</i> , Ηράκλειο: Πανεπιστημιακές Εκδόσεις Κρήτης
Scientific journals
Scientific articles
Other
Lecture presentations (eclass)