COURSE OUTLINE

(1) GENERAL

SCHOOL	PHILOSOPHY			
ACADEMIC UNIT	PHILOLOGY			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE	GLOF342	SEMESTER	3-8	
COURSE TITLE	Topics in Computational Semantics			
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		WEEKLY TEACHING HOURS		CREDITS
		3		10
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	SCIENTIFIC AREA OF SPECIA	LIZATION		
PREREQUISITE COURSES:	GLOF142			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek			
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (in Greek)			
COURSE WEBSITE (URL)	https://elearn.uoc.gr/			

(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

The general goal of the seminar is to delve into issues related to Computational Semantics. More specifically, upon completion of this course students should be able to:

- Know the main methodological and formal tools used in Computational Semantics as well as its main applications
- To implement small-scale Computational Semantics projects
- To critically assess the relevant literature

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 Adapting to new situations Decision-making Working independently Team work Working in an international environment Working in an interdisciplinary environment Production of new research ideas Project planning and management Respect for difference and multiculturalism Respect for the natural environment Showing social, professional and ethical responsibility and sensitivity to gender issues Criticism and self-criticism Production of free, creative and inductive thinking

Others...

Search for, analysis and synthesis of data and information, with the use of the necessary technology Working independently Working in an international environment Decision-making Production of free, creative and inductive thinking Working in an interdisciplinary environment Team work

(3) SYLLABUS

The seminar explores a number of issues in Computational Semantics. Various approaches used in Computational Semantics are examined, ranging from logical and probabilistic approaches to machine learning and deep learning ones, as well as a variety of applications like sentiment analysis, natural language inference, paraphrasing, etc. The students will get to choose the topic of their interest, perform a descriptive and theoretical analysis, present it to class and, finally, write the final term paper.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face		
Face-to-face, Distance learning, etc.			
USE OF INFORMATION AND	 Class lectures, presentations, slides (pdf) 		
COMMUNICATIONS TECHNOLOGY	Class notes, announcements & communication		
Use of ICT in teaching, laboratory	via ClassWeb		
education, communication with	Communication via email		
students			
TEACHING METHODS	Activity	Semester workload	
The manner and methods of teaching	Lectures	39	
are described in detail.	Independent study and	90	
Lectures, seminars, laboratory	exam preparation		
practice, fieldwork, study and analysis	Writing of final term paper	121	
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	Course total (25 hours per		
learning activity are given as well as		250	
the hours of non-directed study	11013)		
according to the principles of the			
ECTS			
STUDENT PERFORMANCE			
EVALUATION			
Description of the evaluation	I. Oral presentation in class (40%)		
procedure			
language of any heating months do of	II. Final term paper (60 %)		
Language of evaluation, methods of			
evaluation, summative or conclusive,			
multiple choice questionnaires, short-			
unswer questions, open-ended			
questions, problem solving, written			
work, essay/report, ordi examination,			
public presentation, laboratory work,			
interpretation other			
Specifically-defined evaluation criteria			
are given and if and where they are			
accessible to students			

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Προτεινόμενη Βιβλιογραφία:

Bird, Steven, Edward Loper and Ewan Klein (2009), *Natural Language Processing with Python*. O'Reilly (διαθέσιμο ηλεκτρονικά εδώ: <u>https://www.nltk.org/book/</u>)

Van Eijck, J., & Unger, C. (2010). *Computational semantics with functional programming*. Cambridge University Press.

Χατζηκυριακίδης Σ. Διαφάνειες από τις διαλέξεις (ανάρτηση στην ιστοσελίδα του μαθήματος στο eLearn).

- Συναφή επιστημονικά περιοδικά: Journal of Logic, Language and Information Computational Linguistics Transactions of the Association for Computational Linguistics