

COURSE OUTLINE

(1) GENERAL

SCHOOL	Social Sciences		
ACADEMIC UNIT	Cultural Technology and Communication		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	POL 225	SEMESTER	8 th
COURSE TITLE	Cultural Information Management Technologies		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>	WEEKLY TEACHING HOURS	CREDITS	
Lectures	2	3	
Laboratories	1	2	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>	3	5	
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Optional		
PREREQUISITE COURSES:	None		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	https://eclass.aegean.gr/courses/131279/		

(2) LEARNING OUTCOMES

<p>Learning outcomes</p> <p><i>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.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i> 						
<p>At the end of this course, student students will be:</p> <ul style="list-style-type: none"> • familiar with metadata technologies • able to report the prevailing and most popular standards in cultural metadata • know technologies and semantic web technologies • represent conceptual and formal web resources • designing knowledge organization structures • discuss issues related to big, linked and open data • map arbitrary data to existing repositories, infrastructures and standards of the WWW • develop structures for representing knowledge of cultural information 						
<p>General Competences</p> <p><i>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?</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i></td> <td style="width: 50%; border: none;"><i>Project planning and management</i></td> </tr> <tr> <td style="border: none;"><i>Adapting to new situations</i></td> <td style="border: none;"><i>Respect for difference and multiculturalism</i></td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><i>Respect for the natural environment</i></td> </tr> </table>	<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>		<i>Respect for the natural environment</i>
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	<i>Respect for the natural environment</i>					

<i>Decision-making</i>	<i>Showing social, professional and ethical responsibility and sensitivity to gender issues</i>
<i>Working independently</i>	<i>Criticism and self-criticism</i>
<i>Team work</i>	<i>Production of free, creative and inductive thinking</i>
<i>Working in an international environment</i>	<i>.....</i>
<i>Working in an interdisciplinary environment</i>	<i>Others...</i>
<i>Production of new research ideas</i>	<i>.....</i>

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Working in an interdisciplinary environment
- Production of free, creative and inductive thinking
- Transfer of know-how in other environments
- Working independently
- Practice Critical Thinking
- Collaboration and teamwork
- Search, analysis and synthesis of knowledge
- Promoting creative and inductive thinking
- Knowledge and know-how to other environments

(3) SYLLABUS

The course deals with technologies and methods of annotating and representing knowledge with emphasis on information related to the wider cultural industry. Introductory concepts of knowledge, data, information and logic are presented while describing the conceptual and technological stack of the Semantic Web. Knowledge organization and support approaches with emphasis on metadata taxonomy as well as related issues and challenges such as heterogeneity and interoperability, scaling, etc. are discussed and indicative approaches are presented. Popular cultural metadata standards (DC, CIDOC-CRM, EDM ESE, LIDO, MARC) and related technologies (XML, XSL, DTD, XSLT, RDF, OWL) are included in the curriculum. The theoretical part of the course is accompanied by practical exercises in the computer lab using software packages of imprinting, processing and interconnecting knowledge and information that help to better assimilate the learned material.

(4) TEACHING and LEARNING METHODS - EVALUATION

<p style="text-align: center;">DELIVERY</p> <p style="text-align: center;"><i>Face-to-face, Distance learning, etc.</i></p>	<p>Face-to-face supported by Distance learning infrastructure and approaches</p>																										
<p style="text-align: center;">USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</p> <p style="text-align: center;"><i>Use of ICT in teaching, laboratory education, communication with students</i></p>	<p>Use of open source software for laboratory education. Use ICT in teaching and communication with students.</p>																										
<p style="text-align: center;">TEACHING METHODS</p> <p><i>The manner and methods of teaching are described in detail.</i></p> <p><i>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.</i></p> <p><i>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</i></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Activity</th> <th style="text-align: center;">Semester workload</th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td style="text-align: center;">13 *2 hours =26 hours</td> </tr> <tr> <td>Lectures' study</td> <td style="text-align: center;">13*5 hours = 65 hours</td> </tr> <tr> <td>Laboratory Practice</td> <td style="text-align: center;">13*2 = 26 hours</td> </tr> <tr> <td>Laboratory Preparation and semester assignment</td> <td style="text-align: center;">30 hours</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td>Course total</td> <td style="text-align: center;">147 hours</td> </tr> </tbody> </table>	Activity	Semester workload	Lectures	13 *2 hours =26 hours	Lectures' study	13*5 hours = 65 hours	Laboratory Practice	13*2 = 26 hours	Laboratory Preparation and semester assignment	30 hours															Course total	147 hours
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<p style="text-align: center;">STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>The final exam is the student's basic assessment method that includes problem solving and short answer questions. There is also a series of optional assignments/exercises based on the laboratory part of the course and correspond to 20% to 40% of the final grade.</p> <p>The evaluation criteria are known during the first lesson and are clearly stated in the material offered in the course's e-class.</p>																										

(5) ATTACHED BIBLIOGRAPHY

-- Suggested bibliography:

- Γρηγόρης Αντωνίου & Frank van Harmelen, Εισαγωγή στο σημασιολογικό ιστό, Εκδόσεις Κλειδάριθμος
- Ι. Βλαχάβας, Π. Κεφαλάς, Ν. Βασιλειάδης, Φ. Κόκκορας, Η. Σακελλαρίου, Τεχνητή Νοημοσύνη, Εκδόσεις Πανεπιστημίου Μακεδονίας
- Metadata: for information management and retrieval, D. Haynes, 2004
- Metadata in practice, D. I.Hillmann, E.L. Westbrooks, 2004
- Metadata Fundamentals for all Librarians , P. Caplan, 2003
- Introduction to Metadata: Second Edition, Murtha Baca, 2008
- Metadata in Practice, Diane I. Hillmann
- Metadata, Marcia Lei Zeng & Jian Qin
- The Discipline of Organizing, Robert J. Glushko
- Understanding Metadata, National Information Standards Organization

- Related academic journals:

- ACM Journal on Computing and Cultural Heritage
- Elsevier Journal of Web Semantics
- International Conference on Metadata and Semantics Research (MTSR)
- DCMI (Dublin Core Metadata Initiative)
- International Conference on Dublin Core & Metadata Applications
- Knowledge Engineering and Semantic Web
- International Semantic Web Conference ISWC