COURSE OUTLINE

1. GENERAL

SCHOOL	ENGINEERING
DEPARTMENT	ARCHITECTURE
LEVEL OF COURSE	UNDERGRADUATE
COURSE CODE	ARC_E808 **SEMESTER OF STUDIES** 8th
COURSE TITLE	MAPPING THE DIGITAL ARCHIVES

INDEPENDENT TEACHING ACTIVITIES	TEACHING HOURS PER WEEK	ECTS CREDITS
Lectures, seminars and laboratory work	2	4

COURSE TYPE	Field of Practice (Digital Media), History and Skills Development on Architectural Analysis and Representation. Elective Course (selected from a list of courses)
PREREQUISITE COURSES:	
TEACHING AND ASSESSMENT LANGUAGE:	Greek.
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes (in English)
COURSE WEBPAGE (URL)	To be announced (after course authorization) at eclass.upatras.gr/courses

2. LEARNING OUTCOMES

Learning outcomes

The course introduces students to modern methods of analysis and recording. A desirable result at the end of the semester is the ability to research and collect architectural data, critical analysis and construction of information in databases, and nonlinear digital presentation. The content and subject of the laboratory exercises aimed at the ability of students to organize and register architectural information as a creative tool for research and analysis. The course combines methodologies for collecting and classifying material with practical forms of representation and interactive presentations of the archive material. We aim to create a database (geographically identifiable) capable of expanding and enriching with new elements that highlight the Greek architectural heritage with significant architectural works

Upon completion of the course, students should be able to:
- Know how to search sources and records
- Transfer traditional techniques into new technology platforms
- Make creative use of modern representational tools
- Develop systems to communicate architectural information
- Manage complex information structures

General Abilities

By the end of this course the student will, furthermore, have developed the following skills (general abilities):
- Search, analyze and synthesize data and information, using the necessary technologies
- Autonomous work
- Teamwork
- Design and project management
- Exercise of criticism and self-criticism
- Promote free, creative and inductive thinking

•	Skills needed for communicating architectural projects

3. COURSE CONTENT

Digital space is a field of communication and creation that expands the way ideas are conveyed, distributed and completed. The elective course Mapping and Digital Archives of Greek Architecture presents and interprets architectural projects by gathering information, recording, analyzing, presenting and imaging. The archive issue extends the boundaries of architectural education to the observation, presentation and interpretation of the immediate environment. It aims at a continuously expanding architectural database that will be enriched year after year to highlight the Greek architectural heritage. The archive of drawings, texts, images and models will be accessible to the students of the department. The course cover issues related to methodologies of collecting and classifying architectural material, historical analysis and representational practices.

The lesson and the laboratory exercises are completed in three phases:

1. Data collection, goal setting and material processing
2. Analysis and classification of data –Creation of a communication model, and
3. Preparation of descriptive methods and representations. Organization and presentation of the archival material in digital space.

Each phase is supported by lectures and includes interim presentations of the evolution of every student work. Issues analyzed relate to historical frameworks, methods of structuring - organizing information and analyzing architectural data and files. Students are encouraged to explore and collect information about architectural projects that they categorize, analyze and classify in rational lines to eventually record them in a digital file. The exercises help consolidate the observation-analysis architecture and develop data storageing and display techniques in a variety of forms. The method combines theoretical knowledge with archiving and research techniques.

4. TEACHING AND LEARNING METHODS – ASSESSMENT

The lessons are laboratory, supported by lectures and criticism. Students are assessed by the final work they present. A digital demo is required to deliver the nonlinear flow of architectural information.

TEACHING METHOD	Lectures, seminars and laboratory work face to face.	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use of Information and Communication Technologies. Student posts on the course's site. Support learning through the e-class platform.	
TEACHING ORGANIZATION	*Activity*	*Work-load during semester*
	Lectures and seminars	10
	Seminars and Design Workshops	25
	Analysis of reference works	40
	Core project development	25
	Course Total *(25 hrs of work-load per ECTS unti)*	*100*
STUDENT ASSESSMENT	The attendance of lectures and laboratory courses is obligatory. Students are assessed by the exercises and the final presentation at 30% and 70% respectively.	

5. RECOMMENDED LITERATURE

'Συνεκδοχές', Τέλλιος Αναστάσιος, Εκδόσεις Επίκεντρο, 2011

'12 ΕΛΛΗΝΕΣ ΑΡΧΙΤΕΚΤΟΝΕΣ ΤΟΥ ΜΕΣΟΠΟΛΕΜΟΥ', Φεσσά –Εμμανουήλ, Μαρμαράς Ε., Παν/κές εκδόσεις Κρήτης, 2005

'Αρχιτέκτονες του 20^{ου} αιώνα, Ελένη Φεσσά –Εμμανουήλ, Επιμέλεια Έκδοση & εμπορία Βιβλίων Α.Ε., 2009

'Προς το σύμπαν των τεχνικών εικόνων', VilemFlusser, Εκδόσεις Χρήστος Κουτσιαύτης, 2009

Μισέλ Φουκώ, Οι λέξεις και τα πράγματα, Εκδόσεις ΕΛΕΝΗ Γ. ΣΑΡΑΦΙΔΟΥ, 2008

Mitchell, W. 'The logic of Architecture', MIT Press, 1992

'Νεοελληνική Αρχιτεκτονική', Δημήτρης Φιλιππίδης, εκδόσεις Μέλισσα, 1984

Ζωίδης Ε. Κριτική Θεωρία και Οπτική Επικοινωνία, Εκδόσεις ΜΑΡΙΑ ΠΑΡΙΚΟΥ, 2011

Friedhoff R. 'Visualization', Freeman and Co, 1989

Diagram diaries, Peter Eisenman, London Thames and Hudson, 1999

Atlas of novel tectonics, Reiser+Umemoto, Princeton Architectural Press, 2006

The Diagrams of Architecture: AD Reader, Mark Garcia, Wiley, 2010