

COURSE DESCRIPTION

1. GENERAL

SCHOOL	MUSIC AND AUDIOVISUAL ARTS		
DEPARTMENT	AUDIO AND VISUAL ARTS		
LEVEL	Undergraduate		
COURSE CODE	TEC611	SEMESTER	6 th
COURSE TITLE	Designing Interfaces		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS	
Lecture, Lab Lecture	3	5	
COURSE CATEGORY	Specific Background		
COURSE TYPE	Elective		
PREREQUISITES	AVA540		
LANGUAGE OF TEACHING and EXAMINATIONS	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	YES (In English)		
URL	https://avarts.ionio.gr/en/studies/undergraduate/courses-descriptions/tec611/		
ECLASS			

2. TEACHING RESULTS

Teaching Results
Students who successfully attend the course will become familiar with good data visualization practices (with and without a computer), will be introduced to the notion of junkcharts, will know how to measure the usability of a system, will be introduced to the interfaces design rules and principles, will get to know Norman's design principles, the human-computer systems design research and its characteristics, the interaction design system process(4 stages), the design and methods for measuring the quality of an interface, the field of computer human communication, the human processor model, the user-system interaction model under Norman ,various distributed cognitive models, perception issues, attention and memory issues, system design examples, user interface design issues, Norman rules, the golden rules of Schneiderman, NASA's design guidelines, analyzing input / output devices, Fitt's law, perceptual problems, visual limitations, interface cartography, user/system feedback, experience transfer, idioms and stereotypes, associations and culture, pathologic design, help systems.
General Skills
<ul style="list-style-type: none"> • Seek, analyze and synthesize data • Autonomous work • Team work • Project design and management • Freedom of thought

3. CONTENT

<p>The course analyses the practice of designing both physical (non-digital) and interactive digital products, environments, systems, and services. Part of the process involves analysis about how a user might interact with the end-product, digital and physical. The introduction of Augmented Reality and 3D Printing finally allows the connection between digital and physical presence, hence this course is an essential part of the development process between those two worlds. Common topics presented include interaction design principles, aesthetics and design, human-computer interaction, and software development, form and behavior. We focus not only on but try to imagine how things could be, combining design with functionality in order to achieve the targeted end-user experience.</p> <p>Week 1: Introduction Week 2: Data Visualization</p>

Week 3: Human - Computer Interaction
Week 4: Examples - System Design & Analysis Interface
Week 5: Designing User Interfaces
Week 6: Devices & Interaction (A)
Week 7: Devices & Interaction (B)
Week 8: Human Factors
Week 9: Design Rules
Week 10: Course Summary & Exercise
Week 11: Exercise & Parameter Analysis
Week 12: Exercise Completion (corrections)
Week 13: Presentation & Evaluation of the Exercise

4. TEACHING AND LEARNING METHODS - EVALUATION

TEACHING METHOD	Lectures
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Enhanced by multimedia content. The learning process is supported by the asynchronous e-learning platform e-class.
TEACHING STRUCTURE	
EVALUATION OF STUDENTS	<p>The exercises can be completed in English.</p> <p>Progress in this course is assessed during the semester by quality implementation and timely submission of the required work and participation in the course activities (presentations, visits, projects, experiments). Submitted work is rated for the quality and scope of the implementation, proper formatting and completeness of the presentation that is often required to be implemented by the students to present the results of their research as part of the lecture. Work sent via other communication channels such as e-mail, social media will not be considered. Students are responsible to seek clarification if they do not understand the assignment and solve their queries during the course laboratory. In order for students to receive their final grade, they must submit a signed statement stating that their work does not contain plagiarism and it was solely created for this particular course. They must also sign the marking form provided by the lecturer during the exam period.</p> <p>Students who do not complete the course and fail for a specific term, can complete and submit the work requested during the most recent semester. As the course progresses from year to year, they should always enquire about the latest exercises which should be present within the e-class system. Those exercises are submitted during the examination date as it is programmed centrally by the department and the students should also sign the form provided during the examination in order for their work to be evaluated and receive the final mark.</p>

5. BIBLIOGRAPHY

The books listed are distributed in Greek language. Please contact the professor of the course should you require particular references in your language for easier reading.

Βιβλίο [320155]: ΑΞΙΟΛΟΓΗΣΗ ΔΙΑΔΡΑΣΤΙΚΩΝ ΣΥΣΤΗΜΑΤΩΝ ΜΕ ΕΠΙΚΕΝΤΡΟ ΤΟΝ ΧΡΗΣΤΗ, ΠΑΝΑΓΙΩΤΗΣ ΚΟΥΤΣΑΜΠΑΣΗΣ

Βιβλίο [59303612]: Από τις σύνθετες Τέχνες στα υπερμέσα και τους νέους εικονικούς - δυναμικούς χώρους. Ένα εγχειρίδιο για τον καλλιτέχνη που ασχολείται με την ψηφιακή Τέχνη, ΜΑΤΘΑΙΟΣ ΣΑΝΤΟΡΙΝΑΙΟΣ

ΒΑΣΙΚΑ ΣΤΟΙΧΕΙΑ ΤΗΣ ΕΜΠΕΙΡΙΑΣ ΤΟΥ ΧΡΗΣΤΗ: ΣΧΕΔΙΑΣΗ ΙΣΤΟΤΟΠΩΝ ΜΕ ΑΝΘΡΩΠΟΚΕΝΤΡΙΚΑ ΚΡΙΤΗΡΙΑ

Κωδικός Βιβλίου στον Εύδοξο: 12533833

Έκδοση: 1η/2011

Συγγραφείς: JESSE JAMES GARRETT

ISBN: 978-960-461-445-5

Τύπος: Σύγγραμμα

Διαθέτης (Εκδότης): ΕΚΔΟΣΕΙΣ ΚΛΕΙΔΑΡΙΘΜΟΣ ΕΠΕ

ΑΛΛΗΛΕΠΙΔΡΑΣΗ ΑΝΘΡΩΠΟΥ - ΥΠΟΛΟΓΙΣΤΗ: ΑΡΧΕΣ, ΜΕΘΟΔΟΙ ΚΑΙ ΠΑΡΑΔΕΙΓΜΑΤΑ

Κωδικός Βιβλίου στον Εύδοξο: 12279101

Έκδοση: 1η/2011

Συγγραφείς: ΠΑΝΑΓΙΩΤΗΣ ΚΟΥΤΣΑΜΠΑΣΗΣ

ISBN: 978-960-461-439-4

Τύπος: Σύγγραμμα

Διαθέτης (Εκδότης): ΕΚΔΟΣΕΙΣ ΚΛΕΙΔΑΡΙΘΜΟΣ ΕΠΕ

ΔΙΕΠΑΦΗ ΧΡΗΣΤΗ - ΥΠΟΛΟΓΙΣΤΗ: ΜΙΑ ΣΥΓΧΡΟΝΗ ΠΡΟΣΕΓΓΙΣΗ

Κωδικός Βιβλίου στον Εύδοξο: 13650

Έκδοση: 1η/2006

Συγγραφείς: ΔΗΜΟΣΘΕΝΗΣ ΑΚΟΥΜΙΑΝΑΚΗΣ

ISBN: 960-209-975-5

Τύπος: Σύγγραμμα

Διαθέτης (Εκδότης): ΕΚΔΟΣΕΙΣ ΚΛΕΙΔΑΡΙΘΜΟΣ ΕΠΕ

Σχεδίαση Διεπαφής Χρήστη, 6η Έκδοση

Κωδικός Βιβλίου στον Εύδοξο: 59396199

Έκδοση: 6η Έκδοση/2016

Συγγραφείς: Shneiderman Ben, Plaisant Cathrine

ISBN: 978-960-418-655-6

Τύπος: Σύγγραμμα

Διαθέτης (Εκδότης): ΕΚΔΟΣΕΙΣ Α. ΤΖΙΟΛΑ & ΥΙΟΙ Α.Ε.