COURSE OUTLINE

(1) GENERAL				
SCHOOL	ENGINEERING			
ACADEMIC UNIT	INFORMATICS AND COMPUTER ENGINEERING			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE		SEMESTER	8th	
COURSE TITLE	HUMAN-COMPUTER INTE	RACTION		
INDEPENDENT TEACHI	NG ACTIVITIES			
if credits are awarded for separate	e components of the course, WEEKLY			
e.g. lectures, laboratory exercise	es, etc. If the credits are TEACHING CREDITS		CREDITS	
awarded for the whole of the cours	e, give the weekly teaching HOURS			
hours and the tota	al credits			
	Lectures	2		
	Tutoring		1	
Laboratory activities			1	
Add rows if necessary. The organisa	ition of teaching and the		4 5	
teaching methods used are describe	ed in detail at (d).	,		
COURSE TYPE	Scientific Area, Skills Devel	opment		
general background,				
special background, specialised				
general knowledge, skills				
PREREQUISITE COURSES:	Greedy			
LANGUAGE OF INSTRUCTION	Greek			
IS THE COURSE OFFERED TO	Ves (English)			
FRASMUS STUDENTS				
COURSE WEBSITE (URL)				
(2) LEARNING OUTCOMES				
Learning outcomes				
The course learning outcomes, spec	ific knowledge, skills and co	mpetences of a	n 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	ng outcomes for each qualif	ications cycle, a	ccording 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			
Upon successful completion of th	e course, students:			
They will have acquired knowledge of the theoretical background and technological evolution o				
Human-Computer Interaction	0		-	
They will have understood the prob	lems that arise during inter-	action between	the user and the	
computer	and a loc auting inter		the user und the	

They will have acquired skills in designing and implementing user interfaces

They will be able to evaluate user interfaces and implement user-friendly interactive systems in different environments.

ces that the degree-holder must acquire (as pear below), at which of the following does the roject planning and management espect for difference and multiculturalism espect for the natural environment nowing social, professional and ethical esponsibility and sensitivity to gender issues riticism and self-criticism			
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roduction of free, creative and inductive thinking			
 thors			
 Search, analysis and synthesis of data and information, using and using the necessary technologies Adapting to new situations Autonomous work Teamwork Working in an interdisciplinary environment Generating new research ideas Exercising criticism and self-criticism Promoting free, creative and deductive thinking 			
fic areas			
 Interactive systems usability Interaction devices Interaction Modes and Technologies. Interface Design Principles Theoretical Design Models (Four Level Model, GOMS approach, Action Stages Model) Human-Centred Design, Human-Centred Design Variations (Ethnographic Observation, Participatory Design) Interactive Systems Design Tools and Methods Methods and Techniques for the Evaluation of Interface Systems Natural Language Interfaces - Voice Interfaces Collaborative Processes and Social Media Utility-oriented Web Design, Mobile Device Interface Design 			

DELIVERY	Face to face				
Face-to-face, Distance learning, etc.	Practice in the laboratory				
USE OF INFORMATION AND	 in Teaching, 				
COMMUNICATIONS TECHNOLOGY	 in Laboratory Educa 	tion,			
	• in Communication w	rith students			
Use of ICT in teaching, laboratory					
education, communication with					
students					
TFACHING METHODS	Activity	Semester workload			
The manner and methods of	Lectures	26			
teaching are described in detail	Tutoring and	12			
Lactures seminars laboratory		15			
practice fieldwork study and	exercises	12			
analysis of hibliography tytorials	Laboratory exercises	13			
allarysis of bibliography, tutorials,	Self-study	30			
placements, clinical practice, art	Preparation of Work	43			
workshop, interactive teaching,	Course total	125			
educational visits, project, essay	(25 hours load				
writing, artistic creativity, etc.	per credit hour				
	unit)				
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					
STUDENT PERFORMANCE	Written examination (50%)				
EVALUATION	Assignments/Exercises (50%	b)			
Description of the evaluation	<i>, , , ,</i>	, ,			
procedure					
r					
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 procentation laboratory					
public presentation, laboratory					
work, clinical examination of					
patient, art interpretation, other					
specifically-defined evaluation					
criteria are given, and if and where					
they are accessible to students.					
(5) ATTACHED BIBLIOGRAPHY					
- Suggested bibliography:	1. 1				
1. N. Avouris, Ch. Katsanos, N. Celios and K. Moustakas, Introduction to					
Human-Computer Interaction, University of Patras Publications, 2016.					
2. Δ. Akumianakis, User-Compu	2. Δ. Akumianakis, User-Computer Interface: A Modern Approach,				
Keydarithmos, 2006.					
3. P. Koutsambasis, Human-Computer Interaction: Principles, Methods and					
Principles, Methods, Methods	and Examples, KeyDarithmos	, 2011.			
4. P. Koutsambasis, Evaluation of Interactive Systems with a focus on the					
User-centred, "Kallipos" repository, Electronic Book, 2016.					
5. B. Shneiderman & C. Plaisant,	5. B. Shneiderman & C. Plaisant, Σχεδίαση Διεπαφής Χρήστη (6ηέκδοση). Εκδόσεις				
Τζιόλα, 2016.					
6. Ι.Ι. Garrett,Βασικά Στοιχεία της Εμπειρίας του Χρήστη: Σχεδίαση Ιστοτόπων με					
Ανθοωποκεντοικά Κοιτήρια. Εκδόσεις Κλειδάριθμος. 2011.					
7. Dix A., Finlay J., Abowd G., Beale R., Επικοινωνία Ανθρώπου - Υπολονιστή (3n					

(4) TEACHING and LEARNING METHODS - EVALUATION

έκδοση), Εκδόσεις Μ. Γκιούρδας, 2007.

- 8. J. Preece , Y. Rogers, H. Sharp, D. Benyon , S. Holland, T. Carey, Interaction Design: Wesley, 2015.
- I.G. Clifton, Android User Interface Design: Γνώση της λειτουργίας του Android: Μετατροπή ιδεών και σκίτσων σε Beautifully Designed Apps, Addison-Wesley, 2013.
- 10. L. Rosenfeld, P. Morville, J. Arango, Αρχιτεκτονική πληροφοριών: Για τον Παγκόσμιο Ιστό και την Beyond (4η έκδοση), O'Reilly Media, 2015.
- 11. S. Hoober, E. Berkman, Designing Mobile Interfaces, Patterns for Interaction Design, O'Reilly Media, 2011
- 12. J. Lazar, J.H. Feng, H. Hochheiser, Research Methods in Human-Computer Interaction, (2η έκδοση), Morgan Kaufmann, 2017
- 13. J. Nielsen, R. Budiu, Mobile Usability, New Riders, 2012
- J. Johnson, GUI Bloopers 2.0: Common User Interface Design Don'ts and Dos, Morgan Kaufmann; 2 έκδοση, 2007

- Interesting Connections:

- 1. ACM Transactions on Computer-Human Interaction (ACM)
- 2. International Journal of Human-Computer Interaction (Taylor & Francis)
- 3. International Journal of Human–Computer Studies (Elsevier)
- 4. Journal of Interaction Science (Springer)
- 5. Human-Computer Interaction (online, Taylor & Francis)
- 6. Pervasive and Mobile Computing (Elsevier)
- 7. Universal Access in the Information Society (Springer)