COURSE OUTLINE

(1) GENERAL

SCHOOL	Science and Technology			
ACADEMIC UNIT	Science and Technology			
PROGRAMME OF STUDIES	MSc in e-Business and Digital Marketing			
LEVEL OF STUDIES	Postgraduate			
COURSE CODE		SEMESTER 2		
COURSE TITLE	Human Computer Interaction, Design and User Experience			
COURSE TYPE Elective, compulsory	Elective			
INSTRUCTOR(S)	Dr. Aikaterini Tzafilkou	Dr. Aikaterini Tzafilkou		
INDEPENDENT TEACHI if credits are awarded for separate cor lectures, laboratory exercises, etc. If the whole of the course, give the weekly teach	NG ACTIVITIES mponents of the course, e.g. e credits are awarded for the hing hours and the total credits	WEEKLY TEACHING HOURS	CREDITS	
		3	6	
Add rows if necessary. The organisation of	teaching and the teaching			
	Theory	3		
	Recitation			
	Lab			
Add rows if necessary. The organisation of methods used are described in detail at (d,	vs if necessary. The organisation of teaching and the teaching Is used are described in detail at (d).			
COURSE TYPE general background, special background, specialised general knowledge, skills development	Special background			
PREREQUISITE COURSES:	-			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	English			
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes			
COURSE WEBSITE (URL)	https://www.ihu.gr/ucips/postgraduate-			

(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

On completing the course, the student will be able to:

- 1. Understanding the principles of human cognition, perception, and emotional states
- 2. Conducting Usability/UX Testing and Reporting
- 3. Designing static and interactive Prototypes of website and mobile interfaces
- 4. Collecting implicit user feedback through Face Tracking tools and techniques
- 5. Conducting User Research through popular UX research methodologies
- 6. Analyzing qualitative data of user feedback

General Competences

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	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
Production of new research ideas	Others

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Decision Making
- Teamwork
- Production of free, creative, and inductive thinking

(3) SYLLABUS

This course aims to teach the fundamentals of Human Computer Interaction and UX Design focusing on:

• human cognitive and psychological aspects that UX designers should be aware of when designing new products;

- user research methodologies to gather and analyze qualitative and/or quantitative data;
- tools and principles to design interactive product/system prototypes.

The topics include:

- Web Accessibility
- UX Elements & Usability Testing/Reporting
- Prototyping for mobile interfaces
- Affective Computing and Neuromarketing
- Face & Eye Tracking Applications
- Qualitative User Research Methods

Students will also be engaged in an academic task on a selected HCI subfield (e.g., Game-Based Learning/ Gamification, VR/AR, FaceTracking, Eye Tracking, etc.) to gain deeper understanding on the topic and develop the academic skills to perform a compete scientific research report.

The course will include open end discussions on today's HCI trends, and hands-on workshops on: i) Prototyping, ii) Face Tracking Research, iii) User research tasks for essential data retrieval (interviews, focus groups, observation, etc.), and iv) Qualitative data analysis.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Hybrid: Face to face and synchronous distance learning	
Face-to-face, Distance learning, etc.		

USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	 Use of ICT in Teaching During the educational process, various tools and platforms are used, along with the material available at the e-learning platform. The hybrid teaching method involves synchronous learning with the support of the videoconferencing tool Zoom. Students are taught a variety of tools related to the course content and material. Use of ICT in Communication with students The course material (slides, scientific articles, exercises, etc.) is posted on the course page at the e-learn platform (Moodle). Use of Moodle Forums announcements. Live video meetings via Zoom/Teams. 		
TEACHING METHODS	Activity	Semeste	er workload
The manner and methods of teaching are described	Lectures	3() hrs
in detail.	Recitation	50	,
Lectures, recitation, seminars, laboratory practice,	Lab		
tutorials, placements, clinical practice, art	Project	18	3 hrs.
workshop, interactive teaching, educational visits,	Exams	2	hrs.
project, essay writing, artistic creativity, etc.	Non-Directed Study	80) hrs.
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			
	Course total 130 hrs		0 hrs.
COURSE MATERIAL ARRANGEMENT	Theory/Recitation	_	
	Introduction to HCI. Web Accessibility		1 hr.
	UX Elements & Usability Testing		5 hrs.
	Prototyping (WireFrames, Interactive Prot	totypes)	4 hrs.
	Affective Computing and Neuromarketing		
	FaceReader Onilne	<u> </u>	5 hrs.
	Qualitative User Research Methods (Interviews- 3 hrs		3 hrs.
	Observations)		
	Thematic analysis 3 H		3 hrs.
	User Cognition and Perception 3 hrs.		3 hrs.
STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure	Language of Evaluation: English		
Language of evaluation, methods of evaluation, summative or conclusive, multiple choice	Evaluation Procedure:Written Exams (70%). Methods of evaluation:		
questions, problem solving, written work,	• Upen-ended questions		
essay/report, oral examination, public presentation,	 Case studies 		
laboratory work, clinical examination of patient, art interpretation, other	 Multiple choice questions (on lab material) Group project (30%): 		naterial)
Specifically-defined evaluation criteria are given, and if and where they are accessible to students	Conducting a complete UX Experimental Research on a Prototype Mobile App /Educational Mobile App/ SM Campaign		
	The evaluation procedure is announced to the students during the first lecture and is also accessible at the e-learn platform throughout the entire semester.		
STUDENT OBLIGATIONS	 Compulsory attendance of lecture 	S	
Compulsory attendance of lectures, labs, recitations, compulsory participation in midterms,	 Compulsory participation in the exams 		

exams, compulsory delivery of homework, projects		
etc.		

(5) ATTACHED BIBLIOGRAPHY

- Suggested Textbooks

- Interaction Design: Beyond Human-Computer Interaction 2019 by Helen Sharp (Author), Jennifer Preece (Author), Yvonne Rogers (Author)
- Human Computer Interaction 2007 by Prof Alan Dix (Author), Janet E. Finlay (Author), Gregory D. Abowd (Author), Russell Beale (Author)
- UX Methods: A Quick Guide to User Experience Research Methods 2017 by James Pannafino (Author), Patrick McNeil (Author)