

Course unit title:	Human Computer Interaction
Course unit code:	INS609
Type of Course Unit: (Compulsory/optional)	Optional
Level of course unit: (First, second or third cycle)	Master (2 nd Cycle)
Year of study:	1 or 2
Semester when the unit is delivered:	2 or 3
Number of ECTS credits allocated:	8
Name of lecturer(s):	TBA
Learning outcomes of the course unit:	
<p>Upon successful completion of this course students should be able to:</p> <ul style="list-style-type: none"> • Identify, predict and understand common usability problems encountered by Information Systems users. • Select and use appropriate task analysis methods to represent task-based usability requirements. • Identify and analyze cognitive, physical and social characteristics of users that determine user-based usability requirements. • Carry out detailed interface evaluation, identifying usability deficiencies and relating designs to requirements. • Discuss potential benefits and drawbacks of the application of different interaction techniques in Information Systems. 	
Mode of delivery:	Face- to- face
Prerequisites and co-requisites:	None
Recommended optional program components:	None

Course Contents:**Objective:**

To emphasize the importance of the aspects of interaction between humans and machines, and of usability for the success of Information Systems, exploring the characteristics of Information Systems' users, both as individuals and in groups, the tasks they carry out, and the usability requirements which stem from them.

This is related to specific objectives 2 to 6 and 8.

Description:

The nature of IS usability:

Usability goals and issues; human requirements for interaction with IS, as individuals and as group members; common deficiencies in user interfaces; the concept of interface appropriateness.

Human information processing:

Capabilities and limitations of the human as an information processor; perception, attention, reasoning and memory; analysis of usability problems in relation to cognitive abilities; relation between cognitive and physical aspects of users.

Social considerations and usability:

Usability in context; social influences on usability; usability requirements in collaborative and groupwork environments.

Task analysis:

Techniques for analyzing and representing user tasks; goal structures; hierarchical decomposition; scenarios; time-based models.

Usability requirements specification:

Deriving usability requirements from prior analysis; selecting and specifying usability criteria; justifying usability requirements in IS projects.

Interface evaluation:

Dimensions of user response to interfaces (ease, efficiency, acceptance); methods of interface evaluation; use of evaluative information in interface design and selection.

Advanced topics:

Reality-based interaction styles; introduction to User Experience evaluation.

**Recommended
or
required reading:**

Te'eni, D., Carey, J., & Zhang, P. (2006). Human Computer Interaction: Developing Effective Organizational Information Systems. Hoboken, NJ: Wiley.

Sharp, H., Rogers, Y., & Preece, J. (2011). Interaction Design: Beyond Human Computer Interaction. New York: Wiley.

	<p>Shneiderman, B., Plaisant, C., Cohen, M., & Jacobs, S. (2009). Designing the User Interface: Strategies for Effective Human-Computer Interaction. Boston, MA: Addison-Wesley</p> <p>Norman, D. A., & Draper, S. W. (Eds). (1986).User Centered System Design. Hillsdale, NJ: Lawrence Erlbaum Associates.</p> <p>Journals: Human Computer Interaction ACM Transactions of Human Computer Interaction IEEE Pervasive and Ubiquitous Computing International Journal of Human-Computer Studies International Journal of Human-Computer Interaction Interacting with Computers</p>						
Planned learning activities and teaching methods:	<table border="1" style="width: 100%;"> <tr> <td style="width: 60%;">Class Instruction</td> <td style="width: 40%; text-align: center;">42 Hours</td> </tr> <tr> <td>Consultation</td> <td style="text-align: center;">30 Hours</td> </tr> </table>	Class Instruction	42 Hours	Consultation	30 Hours		
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Assessment methods and criteria:	<table border="1" style="width: 100%;"> <tr> <td style="width: 60%;">Examinations</td> <td style="width: 40%; text-align: center;">50%</td> </tr> <tr> <td>Project/ Class Participation</td> <td style="text-align: center;">50%</td> </tr> <tr> <td></td> <td style="text-align: center;">100%</td> </tr> </table>	Examinations	50%	Project/ Class Participation	50%		100%
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Project/ Class Participation	50%						
	100%						
Language of instruction:	English						
Work placement(s):	No						
Place of Teaching:	<p>Regular Classroom European University Cyprus, Nicosia</p> <p>Computer Laboratory European University Cyprus, Nicosia</p>						