

NOVA Information Management School

NOVA IMS

Course	Human – Computer Interaction
Coordinator	Sara Silva
ECTS	6
Objectives:	<p>The aim of this course is to teach the students the basics of human cognition, and how it affects the interaction between humans and computers. At the end of the semester the students are expected to be able to recognize, explain and avoid most interface mistakes, and to be able to design functional web pages and software graphical user interfaces. The effective implementation of these interfaces is not a goal of this course. It is also expected that the students acquire a global vision of the history and current panorama of this subject.</p>
Curricular Unit Contents:	<ul style="list-style-type: none"> • Fundamentals and history • Human cognition and design principles: <ul style="list-style-type: none"> - vision, attention, memory - accessibility - design for the web - design for mobile devices • Building interfaces: <ul style="list-style-type: none"> - elements of an interface - users and tasks - prototyping • Games, virtual characters, virtual reality • Advanced interfaces - reality and science fiction
Teaching methods:	<p>Most classes will be theoretical-practical, with a theoretical introduction in the beginning of each lesson, followed by immediate application and visualization in examples found in books and on the internet. Several mini-assignments will be made during the semester, not only during the class but also as homework. Some lessons will be entirely dedicated to the project. It</p>

	is essential the use of the computer, internet surfing, and an excellent teacher-student interaction!
Grading methods:	<ul style="list-style-type: none"> - Exam - Project - Class and home assignments - Participation in classroom
Bibliography:	<ul style="list-style-type: none"> • Designing with the Mind in Mind, Simple Guide to Understanding User Interface Design Rules", Jeff Johnson, 2010, Morgan Kaufmann • Introdução ao Design de Interfaces", Manuel J. Fonseca, Pedro Campos, Daniel Gonçalves, 2012, FCA Lidel • The WWW (Wonderful World Wide Web)