



# UNIVERSITÀ DI PAVIA

Anno Accademico 2014/2015

## HUMAN COMPUTER INTERACTION

Enrollment year	2014/2015
Academic year	2014/2015
Regulations	DM270
Academic discipline	ING-INF/05 (DATA PROCESSING SYSTEMS)
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING
Course	COMPUTER ENGINEERING
Curriculum	SERVICES ENGINEERING
Year of study	1°
Period	2nd semester (02/03/2015 - 12/06/2015)
ECTS	6
Lesson hours	45 lesson hours
Language	ENGLISH
Activity type	WRITTEN AND ORAL TEST
Teacher	MOSCONI MAURO (titolare) - 6 ECTS
Prerequisites	None
Learning outcomes	<p>Human-computer interaction is a discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. This course includes both theoretical material and practical approaches to designing user interfaces. In the lectures, the two will be combined.</p>
Course contents	<p>Introduction to HCI</p> <p>The human Input-output channels, human memory, thinking: reasoning and problem solving</p> <p>Accessibility techniques</p>

	<p>The interaction</p> <p>Models of interaction, ergonomics, interaction styles, elements of the WIMP-interface, interactivity</p> <p>Paradigms for interaction</p> <p>Interaction design basics</p> <p>The process of design, user focus, navigation design, screen design and layout</p> <p>Usability engineering</p> <p>Design rules</p> <p>Usability principles, guidelines, standards, design patterns</p> <p>Evaluation techniques, through expert analysis and through user participation</p>
<b>Teaching methods</b>	<p>Lectures (hours/year in lecture theatre): 45</p> <p>Practical class (hours/year in lecture theatre): 0</p> <p>Practicals / Workshops (hours/year in lecture theatre): 0</p>
<b>Recommended or required readings</b>	<p>Textbook: "Human-Computer Interaction" (3rd Edition). Prentice Hall. By A. Dix, J. E. Finlay, G. D. Abowd and R. Beale. ISBN: 0130461091 ISBN-13: 9780130461094</p>
<b>Assessment methods</b>	<p>Written exam (english italian) at the end of the course: short "open" questions. Attending 75% of lessons: optional project (adds 1-3 points)</p> <p>Optional ten-minutes powerpoint presentations during the lessons (1 point)</p>
<b>Further information</b>	<p>Written exam (english italian) at the end of the course: short "open" questions. Attending 75% of lessons: optional project (adds 1-3 points)</p> <p>Optional ten-minutes powerpoint presentations during the lessons (1 point)</p>
<b>Sustainable development goals - Agenda 2030</b>	<p><a href="#">\$lbl legenda sviluppo sostenibile</a></p>