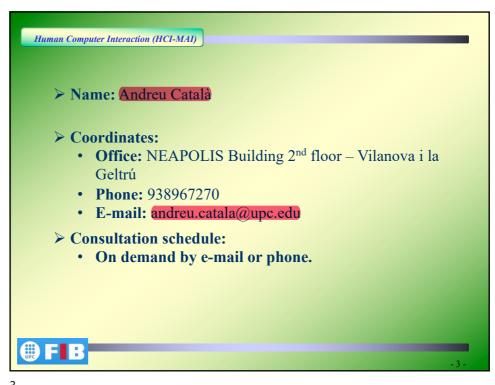
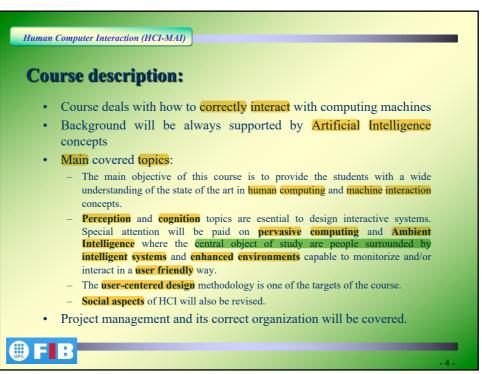


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Human Computer Interaction (HCI-MAI)

Basic organization of the course:

• Theory sessions: Plenary sessions organized at the classroom or in a telematic way (see table for concrete scheduling).

Main covered subjects will be:

- HCI main concepts
- Interaction
- Pervasive computing introduction
- Person centred design AAL concepts
- Social aspects of HCI
- Self-study sessions: After some plenary sessions, a self-study proposal or discussion on given readings will follow. Self-study activity will be organized according a specific assignment, containing the necessary description and references.
- Student's presentations: Self-study proposal activity will be followed by a
 presentation done by the students (done by the working group). This presentation will be
 ranked by professors and students, and finally used as part of the course evaluation (see
 proposed evaluation in following slides). The discussion activity will be defined ontime.



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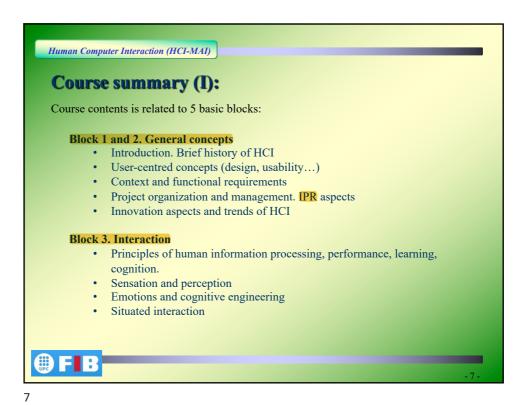
Human Computer Interaction (HCI-MAI)

Basic organization of the course (2):

- Laboratory sessions (Project sessions): Students, as part of a working team, will be asked to propose and develop a personal project proposal. The working team (the students) will:
 - Propose and present an idea.
 - Prepare and present an extended description of the proposal, together with an analysis of the State-of-the Art (comparative analysis of the already existing similar ideas)
 - Prepare and present the concrete specifications of the project (technical, use, methodology...). Presentation will followed by a discussion.
 - Present the state and evolution of the work at a given moment (Interim presentation)
 - Prepare, present and discuss the Final project (at the end of the course activity)
- · Course interim evaluation: None
- Presentations done on the project activity are part of the evaluation process.
 Some written reports must be submitted after the presentations.



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Human Computer Interaction (HCI-MAI)

Course summary (II):

Block 4. Pervasive computing

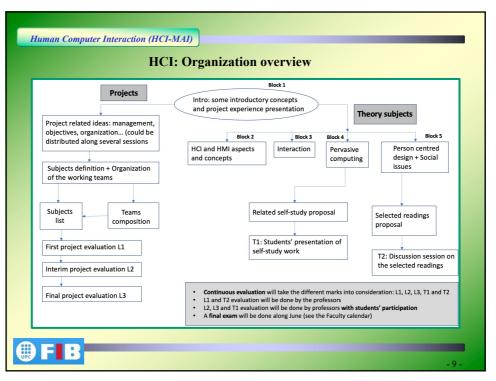
- Principles and technology overview.
- Architectures and Operating Systems.
- · Location and context awareness.
- · Ubiquitous interfaces.
- Introduction to IoT. Overview

Block 5. Person-centred design and social aspects (AAL)

- Smart environments. Principles and technologies of Ambient Intelligent design.
- HCI Ethics: privacy, autonomy, integrity, reliability, security
- · e-Inclusion
- Technology in the society
- · Social Computing and Legal aspects



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April 7 Students' presentations on Pervasive	ming heduling.	Month	Date	Block Theory			1 1					
February 17 1 Intro and semester organization	ming heduling.	February						Project activity			Evaluation	Required report
Brief on HCI + History view 24 2. Main aspects of HCI and HMI Intro to projects organization Own professors projects experience Working teams constitution 10 3 Interaction 17 4 Pervasive + Self study proposals 24 First project presentation April 7 Students' presentations on Pervasive Person centred design (1) 28 5 Person centred design (2) Giving some related readings May 5 Project interim presentations V L2 No Project interim presentations V L2 No Project interim presentations V T2 No given readings	ming heduling.	February	17	4 Indus -								
The characteristics of the control o	heduling.							Some ideas on past students activity				
March 3 HCL: Innovation and Guidelines Final subjects decision Working teams constitution 10 3 Interaction 17 4 Pervasive + Self study proposals 24 First project presentation 18 First project presentation 19 Person centred design (1) Insights on evolution of projects 28 5 Person centred design (2) Projects organization (2) Giving some related readings May 5 Project interim presentations 19 Project interim presentations 10 Project interim presentations 11 Project interim presentations 12 No 13 Project interim presentations 14 No 15 Project interim presentations 16 Project interim presentations 17 No 18 Project interim presentations 19 Project interim presentations 19 Project interim presentations 19 Project interim presentations 10 No	heduling.			Brief o	Brief on HCI + History view							
March 3 HCI: Innovation and Guidelines Final subjects decision Working teams constitution 10 3 Interaction 17 4 Pervasive + Self study proposals 24 First project presentation			24	2 Main a	spect	ts of HCI and I	HMI	Intro to proje	cts organizat	ion		
March 3 HCI: innovation and Guidelines Final subjects decision Working teams constitution 10 3 Interaction 17 4 Pervasive + Self study proposals 24 First project presentation April 7 Students' presentations on Pervasive 21 Person centred design (1) Insights on evolution of projects 28 5 Person centred design (2) Projects organization (2) Giving some related readings May 5 Project interim presentations V L2 No 12 Discussion organized on given readings					ani aspects of rici and rivil							
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21 Person centred design (1) Insights on evolution of projects 28 S Person centred design (2) Projects organization (2) Giving some related readings May 5 Project interim presentations 12 Discussion organized on given readings 13 HCI: Social aspects			24					First project	presentation	P.	√ L1	Yes (<5 pages)
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given readings 19 HCl: Social aspects			12	Discus	sion c	organized on					√ T2	No
								P				
			19	HCI: So	ocial a	spects						
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Human Computer Interaction (HCI-MAI)

Some reports will be required:

- L1: a report specifying topic, title, organization, state of the art, objectives (<5 pages)
- T1: a report with the conclusions of self-study activity (<10 pages)
- L3: a final report on the project results and objectives achieved (no page number limit)

Course evaluation:

Course global mark will be obtained from a continuous and participative evaluation process. A **FINAL EXAM** will be organized as part of the process in June.

- Professors will evaluate all the scheduled presentations and submitted reports.
- Students will be asked to evaluate their colleagues during some of the scheduled presentations.

Final Mark = 0,3 Project evolution mark + 0,3 Final project mark + 0,15 Theory presentations and reporting mark + 0,25 Final Exam mark.



11

11

Human Computer Interaction (HCI-MAI)

Course evaluation (II):

- ➤ Presentations evaluated with the participation of the students (theory and Lab sessions) will be assessed considering three aspects of the presentations done by the students and should be ranked from 0 to 10:
 - Presentation quality (organization, objectives...) P
 - Contents aspects, correctness C
 - Oral communication (how they are able to transmit) OC
- > Students contribution on the evaluation will be = (P + C + OC)/3
- Professors assessment will also consider the submitted reports: Prof. Ass. = 0,6 (P+C+OC)/3 + 0,4 Report mark
- When evaluation is a participative process: Assessment= 0,7 Prof. Assess. + 0,3 Stud. Assess.



12 -

Human Computer Interaction (HCI-MAI)

Some basic bibliography:

- Jounghyun Kim, G., Human Computer Interaction.
 Fundamentals and Practice, CRC Press 2015 ISBN 978-1-4822-3390-2
- Scott MacKenzie, I, Human-Computer Interaction An Empirical Research Perspective, Elsevier / Morgan Kaufmann, 2012.
- Carol Righi, Janice James , *User-Centered Design Stories Real-World UCD Case Studies* , Elsevier / Morgan Kaufmann , 2010
- Werner Weber, Jan M. Rabaey, Emile Aarts , Ambient Intelligence , ISBN:978-3-540-23867-6 .



12