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Bachelor (1st Cycle)				
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		Bachelor (1st Cycle)		
(Spring)	2			
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 Explain the theoretical foundations of designing for interaction between humans and computers and discuss what and who is involved in the process of interaction design. Explain the user experience and describe how to characterize the user experience in terms of usability, user experience goals, and interactive system design principles. Describe Windows Concepts and Interfaces as well as discuss how to design interfaces for different environments, people, places, and activities. Present an overview of the major interface developments, ranging from WIMPs (windows, icons, menus, and pointer) to wearables. Describe prototyping activities with regards to systems interfaces design. Demonstrate basic knowledge on designing user interfaces for Smartphones. 				
(e.g., Windows Phone).	on designing us	er interraces for Smartphones		
	Co-requisites:	ACSC382		
None				
Introduction to Human-Computer Interaction: Explain the difference between good and poor interaction design, what interaction design is and how it relates to human-computer interaction and other fields. What is involved in the process of interaction design, the different forms of interaction design, the human factor etc. Interaction Design: Explain what is communication and collaboration, the main kinds of social mechanisms that are used by people to communicate and collaborate, the range of collaborative systems that supports this kind of social behavior, how field studies inform the design of collaborative systems, etc. The Computer and Human-Computer Interaction: Involves the various devices and implementation beds as well as technological constraints and opportunities, the problem space, how to conceptualize interaction, the pros and cons of using interface metaphors as conceptual models, the relationship between conceptual design and physical design, etc. Introduction to Interactive System Design: Includes what 'doing' interaction design involves, some advantages of involving users in development, the main principles of a user-centered approach, etc. Interfaces Design and Prototyping: Includes prototyping and different types of prototyping activities with regards to systems interfaces design, production of				
The second of th	Explain the theoretical foundation and computers and discuss interaction design. Explain the user experience experience in terms of usability design principles. Describe Windows Concepts a interfaces for different environm. Present an overview of the maj (windows, icons, menus, and posseribe prototyping activities with Demonstrate basic knowledge (layouts and web sites). Demonstrate basic knowledge (e.g., Windows Phone). ace-to-face MDM182 Ione Introduction to Human-Computer od and poor interaction design, uman-computer interaction and conteraction design, the different form the computer interaction design interaction beds as well as roblem space, how to conceptuate face metaphors as conceptuate face metaphors as conceptuate esign and physical design, etc. Introduction to Interactive Systems in terfaces Design and Prototypical d	Explain the theoretical foundations of designing f and computers and discuss what and who is interaction design. Explain the user experience and describe hexperience in terms of usability, user experience design principles. Describe Windows Concepts and Interfaces as interfaces for different environments, people, place (windows, icons, menus, and pointer) to wearable (windows, icons, menus, and pointer) to wearable (windows, icons, menus, and pointer) to wearable layouts and web sites. Demonstrate basic knowledge on designing web layouts and web sites. Demonstrate basic knowledge on designing us (e.g., Windows Phone). ace-to-face MDM182 Co-requisites: Condand poor interaction design, what interaction duman-computer interaction and other fields. What interaction design, the different forms of interaction design of social mechanisms that are used by collaborate, the range of collaborative systems that ehavior, how field studies inform the design of collaborate, the range of collaborative systems that ehavior, how field studies inform the design of collaborate metaphors as conceptualize interaction, interface metaphors as conceptual models, the releasing and physical design, etc. Introduction to Interactive System Design: Includes provinciples of a user-centered approach, etc.		

Work placement(s):	No
Language of instruction:	English
Assessment methods and criteria:	 Group Project & Presentation: 25% Test: 15% Laboratory Work: 10% Final Exam: 50%
Planned learning activities and teaching methods:	The course is structured around lectures, group projects and presentations, laboratory exercises and individual work. During the lectures, students are encouraged to participate in discussions enabling the exchange of ideas and examples. Laboratory exercises are handed to students and their solutions are discussed at laboratory periods. Additional tutorial time at the end of each lecture is provided to students as well as additional notes for each section of the course and worksheets, which process in the lab or as homework. Students are expected to demonstrate the necessary effort to become confident with the different concepts and topics of the course.
References:	Ben Shneiderman and Catherine Plaisant, Designing the User Interface , 4 th Edition, Addison Wesley, 2005.
	human-computer interaction (2nd edition), www.id-book.com John Sharp, Microsoft Visual C# 2008 Step by Step, Microsoft Press, 2007. Charles Petzord, Programming Windows Phone 7, Microsoft Edition.
Textbooks:	Alan Dix, et al, Human-Computer Interaction , 3 rd Edition, Prentice Hall, 2004. Helen Sharp, Yvonne Rogers, Jenny Preece. Interaction Design: beyond
Recommended and/or required reading:	Visual C# Documentation Web design and web development technologies Windows Mobile Phone Developers Guide
	Windows Phone: Explain the major differences of user interfaces between windows applications and smartphone applications. Introduce major tools and environments including Silverlight, XNA and Expression Blend. Use windows phone templates and their major controllers (e.g., text blocks, buttons, slide bars). Orientation and layouts of windows mobile phones. Introduce XAML and C# programming for Windows Phone development. How to get an application in the market (security, privacy, copyrights and certificates).
	production of a conceptual model for a product, use of scenarios and prototypes in design, a range of tool support available for interaction design, etc. Web Interfaces: The notion of a paradigm and set the scene for how the various interfaces have developed in interaction design, overview of the many different kinds of interfaces, highlight of the main design and research issues for each of the different interfaces, considerations which interface is best for a given application or activity, etc. Designing Web sites: How to organize and implement a web project – Designing a web site – designing the web interface – designing a web page – maintaining a
	simple prototypes from the models developed during the requirements activity,