

## Course Programme

IFI7103	INTERFACE AND INTERACTION DESIGN		
4 ECTS	Amount of contact lessons: 32	Study semester: S	Exam
Objective:	To obtain basic knowledge about principles and methods of interface and interaction design. To familiarize the students with the interface design process and to develop group work skills.		
<p>Course description:</p> <p>(incl. description of the content of independent work in accordance with the determined amount of independent work)</p>	<p>Topics:</p> <p>User interface design process and roles in the design team. User modeling and personas. Scenario-based design. Involving stakeholders in the participatory design process. Developing user interface concepts and metaphors. Writing user stories. Information architecture and card sorting. Interface prototyping tools and techniques. Interaction design patterns. Creating and testing paper prototypes. Developing detailed user interface prototypes. Usability testing methods: usability heuristics, cognitive walkthrough, think aloud protocol.</p> <p>Organization of the course:</p> <p>The course is organized as a 6 day workshop (30 hours) where students work on interaction design projects. Theoretical topics are presented as short microlectures.</p> <p>The approximate amount of independent work is 72 hours. This should be divided between reading the literature and writing a book summary (40 hours) and working with the group project (32 hours).</p>		
Learning outcomes:	<ul style="list-style-type: none"> <li>- understands the design process of software user interfaces</li> <li>- is able to choose appropriate methods for involving stakeholders in the design process</li> <li>- is able to write personas, scenarios and user stories</li> <li>- is able to create and test paper prototypes</li> <li>- is able to develop detailed user interface prototypes according to usability principles and design patterns</li> </ul>		
Form of evaluation:	Exam.		

	<p>The exam grade consists of following components:</p> <ul style="list-style-type: none"> <li>- interface design project done as a group assignment (80%)</li> <li>- book summary (20%)</li> </ul>
Lecturer:	Hans Põldoja, research associate
Title in Estonian:	Kasutajaliidese ja interaktsiooni disain
Prerequisite subjects:	
Compulsory literature:	To be negotiated with the teacher.
Replacement literature:	<p>Cooper, A., Reimann, R., &amp; Cronin, D. (2007). <i>About Face 3: The Essentials of Interaction Design</i>. Indianapolis: Wiley Publishing Inc.</p> <p>Cohn, M. (2004). <i>User Stories Applied: For Agile Software Development</i>. Boston: Addison-Wesley.</p> <p>Snyder, C. (2003). <i>Paper Prototyping: The Fast and Easy Way to Design and Refine User Interfaces</i>. San Francisco: Morgan Kaufmann.</p> <p>Crumlish, C, &amp; Malone, E. (2009). <i>Designing Social Interfaces: Principles, Patterns, and Practices for Improving the User Experience</i>. Sebastopol: O'Reilly Media, Inc.</p> <p>Krug, S. (2006). <i>Don't Make Me Think: A Common Sense Approach to Web Usability, Second Edition</i>. Berkeley: New Riders.</p>
Requirements for participating in studies and taking exams/assessments	<p>The number of participants is limited to 20 students. If there are more interested students, then students studying in IMKE master programme will have a priority and other students will be accepted in order of registration.</p> <p>The student must attend at least 80% of the lessons in order to take the exam.</p> <p>Group project and book summary must be completed at least 1 week before the exam.</p> <p>Students taking the repeat exam must improve the group work and/or book summary.</p>

Requirements for independent work	<p>Independent work is based on group project and a book review.</p> <p>All the outcomes of the group project must be presented in a public online environment where it is possible to comment separate outcomes (e.g. blog).</p> <p>The expected length of a book summary is 800–1200 words. Book summary can be published in the student blog or sent to the teacher by e-mail.</p>
Exam evaluation criteria or minimum level necessary to pass assessment	<p>It is possible to receive 80 points for the interaction design group project. The following phases of the design process are evaluated in the group project:</p> <ul style="list-style-type: none"> <li>- personas (max 10 points)</li> <li>- scenarios (max 10 points)</li> <li>- summary of design session (max 5 points)</li> <li>- user stories (max 10 points)</li> <li>- paper prototypes (max 15 points)</li> <li>- testing the paper prototypes (max 5 points)</li> <li>- user interface prototype (max 10 points)</li> <li>- short video about the design project (max 15 points)</li> </ul> <p>It is possible to receive 20 points for the book summary.</p> <p>Exam grade is based on the sum of points received from group project and book summary.</p> <p>If students have contributed a significantly different amount of time to the group project the teacher may raise or lower the grade.</p>
Content of studies and schedule	<p>Contact lessons:</p> <p>09.02 – Introduction to the course. Choosing topics for group projects. Creating personas.</p> <p>10.02 – Writing scenarios. Organizing a participatory design session. Writing user stories.</p> <p>09.03 – Creating paper prototypes. Interaction design patterns.</p> <p>10.03 – Testing and improving paper prototypes.</p> <p>04.05 – Creating user interface prototypes. Shooting a scenario video about the design project.</p>

	<p>05.05 – Shooting and editing the video. Presentations.</p> <p>Deadlines for publishing outcomes of group projects and sending a book summary:</p> <p>13.02 – personas</p> <p>20.02 – scenarios</p> <p>06.03 – summaries of design sessions, complete set of user stories; choosing the book for independent reading and book summary.</p> <p>13.03 – photos of paper prototypes</p> <p>27.03 – summary of evaluation results and improved versions of paper prototypes</p> <p>24.04 – scenario for a short video, user interface prototypes</p> <p>15.05 – final version of the video</p> <p>22.05 – book summary</p>
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Unit in charge of subject	Institute of Informatics
Name of person compiling course programme	Hans Põldoja
Signature	
Date	17.01.2011

Course programme registered in the academic unit

Date	20.01.2011
Name of study assistant	Hanna-Liisa Pender

Signature	
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