

## Course programme – Sustainability in Human-Computer Interaction

Course code IFI7175	<b>Sustainability in Human-Computer Interaction</b>		
ECTS credits: 4	Contact hours: 16	Semester: Spring	Examination
Course objective:	Present an opportunity to acquire systematic knowledge on how HCI can drive sustainable agendas. Provide chances for learning to constructively criticize interactive solutions from the perspective of how they drive or inhibit sustainable change and to propose concepts contributing to one of the themes of Sustainable HCI.		
Brief description of course content:	<p>This online course will cover the following:</p> <ol style="list-style-type: none"> <li>1. Introduction to the field of Sustainable HCI</li> <li>2. Current approaches on how HCI addresses sustainability challenges</li> <li>3. Design criticisms from different sustainability perspectives</li> <li>4. Design thinking and practice for proposing solutions to sustainability challenges</li> </ol> <p>The course starts with an introductory face-to-face lecture (one session – two academic hours). The lecture will present all course details, including the pedagogical script, timeline, assignments and assessment criteria. Students considering taking the course are required to take part in this session.</p>		
Learning outcomes	<p>A student:</p> <ul style="list-style-type: none"> <li>• Possesses systematic knowledge on how environmental, social and economic sustainability challenges have been addressed through HCI ;</li> <li>• Is able to analyze the influence of different HCI design decisions on how they promote or hinder sustainable choices;</li> <li>• Knows current HCI problems, solutions and trends that aim to promote sustainable agendas;</li> <li>• Is able to propose conceptual solutions for interactive systems and services for sustainable change.</li> </ul>		
Assessment methods	Examination. Condition for admission to examination: participation on at least 75% of the online sessions.		
Responsible lecturer	Arman Arakelyan, David Lamas		
Title in Estonian			
Prerequisite course	None		
Compulsory literature	Course materials on <a href="http://ifi7175.wordpress.com">http://ifi7175.wordpress.com</a> and additional readings shared by course facilitator.		
Replacement literature	<ul style="list-style-type: none"> <li>• Chick, A., &amp; Micklethwaite, P. (2011). Design for Sustainable Change: How Design and Designers Can Drive the Sustainability Agenda. Bloomsbury Academic. Retrieved from <a href="http://books.google.ee/books?id=d4D1k53TN84C">http://books.google.ee/books?id=d4D1k53TN84C</a></li> </ul>		

	<ul style="list-style-type: none"> <li>• Stibbe, A. (2009). The handbook of sustainability literacy: Skills for a changing world. Totnes, UK: Green Books. Retrieved from <a href="http://www.sustainability-literacy.org">http://www.sustainability-literacy.org</a></li> </ul> <p>The course cannot be completed based solely on replacement literature.</p>
Subscription to the course and examination	All students of Human-Computer Interaction Masters programme are eligible to subscribe to the course. All students who actively participate in at least 75% of online sessions are eligible to subscribe to the examination.
Requirements for independent work	Students will need to accomplish a total of 124 hours of individual and group work.
Assessment criteria	<p>Cumulative assessment will be based on:</p> <ul style="list-style-type: none"> <li>• 10% Individual concept map of article “Mapping the field of Sustainable HCI” (Assignment 1);</li> <li>• 10% Group Design Critique 1 (Assignment 2, part 1);</li> <li>• 10% Group Design Critique 2 (Assignment 2, part 2);</li> <li>• 5% Problem outline (Assignment 3, Step 2);</li> <li>• 5% Insights from readings and observations (Assignment 3, Step 3);</li> <li>• 20% Description of proposed problem and solution (Assignment 3, Step 4);</li> <li>• 5% Conceptual solutions for the Design Challenge (Assignment 3, Step 5);</li> <li>• 5% Concepts and prototypes for the Design Challenge (Assignment 3, Step 6);</li> <li>• 20% Presentation of Design Challenge (Assignment 3, Step 7);</li> <li>• 10% Active participation in all online sessions.</li> </ul> <p>Final grade will be cumulative, based on the following evaluation:</p> <ul style="list-style-type: none"> <li>• A – 90-100% of the work is done – excellent: outstanding work with no or few minor errors;</li> <li>• B – 80-90% of the work is done – very good: above average work but with some minor errors;</li> <li>• C – 70-80% of the work is done – good: generally good work with a number of notable errors;</li> <li>• D – 60-70% of the work is done – satisfactory: reasonable work but with significant shortcomings; and</li> <li>• E – 50-60% of the work is done – sufficient: passable performance meeting the minimum criteria.</li> </ul>
Information about the content of the course	<p>The course contents are described in detail in the Course Introduction page at <a href="http://ifi7175.wordpress.com">http://ifi7175.wordpress.com</a></p> <p>The online sessions take place every other Saturday from 10:00-12:00 in Google Hangouts. During online sessions the students will present individual or group work assignments and will get feedback on them from other participants and from the course facilitator.</p>

	<p>Module 1. <b>Sustainability and HCI</b> Duration: 2 February – 16 February Online Session: February 8</p> <p>Module 2. <b>Sustainable Interaction Design</b> Duration: 17 February – 2 March Online Session: February 22</p> <p>Module 3. <b>Sustainability in vs. through Design</b> Duration: 3 March - 16 March Online Session: March 8</p> <p>Module 4. <b>Complexity and Systems Thinking</b> Duration: 17 March - 30 March Online Session: March 22</p> <p>Module 5. <b>Futures Thinking</b> Duration: 31 March - 13 April Online Session: April 5</p> <p>Module 6. <b>Undesign, Values, Well-being, (Non)consumption</b> Duration: 14 April - 27 April Online Session: April 19</p> <p>Module 7. <b>Post-sustainability</b> Duration: 28 April - 4 May Online Session: May 3</p>
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